# Split-ductless A/C and Heat Pumps













# Mr. Slim® Split-ductless Systems: Redefining Comfort



Comfort is a concept many of us notice only when we're either uncomfortable or very relaxed. But at Mitsubishi Electric HVAC Advanced Products Division, all we think about is comfort. Our industry-leading Mr. Slim split-ductless cooling and heating systems reflect this thinking. At home or at work our Mr. Slim systems are designed to make any space inviting and comfortable.

Maybe your home has a room that's always too hot or too cold. Or, perhaps, you're looking for a way to control the climate effectively in multiple rooms in your office building such as in conference rooms. No matter what your cooling and heating needs may be, Mr. Slim systems are the perfect way to transform your home or workplace into a tranquil and productive environment.







# Good for the environment and your bottom line.

- Eco-friendly refrigerant: Environmentally-friendly R410A refrigerant offers zero Ozone Depletion Potential (ODP) and allows for higher heat transfer coefficient (COP). This innovative feature means a reduction in equipment size, a reduction in piping size and higher pressure for greater performance. Smaller equipment also means less impact on the environment at the end of the product's life cycle.
- Standard compliance: All Mitsubishi Electric HVAC products follow standards and guidelines as set forth by the Energy Star, EPA, ARI, UL, ASHRAE, ETL and ISO.
- · Recycling design: Our air conditioners are specially designed to allow for easy cleaning, efficient disassembly and more practical recycling. The number of parts used in indoor units has been reduced by adopting modular components, a process which also simplifies materials separation for recycling. To date as much as 84 percent of the materials used to build a Mr. Slim system is recyclable.
- · Smart energy usage: Mitsubishi Electric INVERTER zoning systems smartly deliver only the amount of capacity needed unlike a typical full-power ON system. Individual indoor air handlers are installed within the zone. These air handlers measure the load for that specific zone and deliver for added efficiency only the capacity needed directly to the space, as compared to energy lost in long duct runs. If the zone is not being used, you do not have to condition the space. Smarter sensing technology and microprocessors enhance the system's ability to measure room temperature accurately for added comfort, performance and efficiency.
- Minimal impact on landfills: All air-conditioning products use long-life washable filters.

### What is Mr. Slim Split-ductless Technology?

For decades split-ductless air-conditioning and heat pump systems have been the primary solution for cooling and heating interior spaces around the world. Our quiet and powerful Mr. Slim systems have three main components: an indoor unit, an outdoor unit and a remote controller. Installation is as simple as mounting the indoor and outdoor units, connecting the refrigerant lines and making a few electrical connections. An easy installation for your authorized contractor means you will be quickly enjoying the comfort Mr. Slim systems provide.

#### Why Mr. Slim Systems?

Mitsubishi Electric is without exception the industry leader in split-ductless air-conditioning technology. Our innovations have defined cutting-edge technology for over 28 years. Compare, and you'll see that no one surpasses the Mr. Slim brand's performance for quiet, easy-to-use and energy-efficient operation. And because our split-ductless technology carries the Mitsubishi Electric name, you know every product is built to last. The bottom line is Mr. Slim systems deliver the ultimate in comfort control for your home or office. It's true today and will be comfortably evident for years to come.



#### Where Can Mr. Slim Products Be Used?

Mr. Slim split-ductless systems are specifically designed to improve the comfort level in an uncomfortably hot or cold room of an existing building. Because Mr. Slim Systems do not require ductwork, they are the perfect cooling and heating systems for renovating older buildings - even those with plaster walls and brick facades that were constructed before air conditioning was available. The versatility and variety of applications for Mr. Slim systems are virtually unlimited. They're an excellent choice for almost any spot-cooling or heating situation, including enclosed sunrooms, upstairs bedrooms, new additions, bonus rooms, finished basements, classrooms, hospitals, nursing homes, restaurants, hotels, workout rooms, computer rooms, offices and churches.

Mr. Slim systems work hard for you even in extreme temperatures, maintaining a toasty, warm environment even when it's as cold as -13° F outside with the Hyper-Heating INVERTER (H2i<sup>™</sup>) P-Series system. Mr. Slim systems are also equipped with an anti-allergen filter that helps prevent the circulation of air with contaminants. And because the indoor units can be controlled by zone, it is easy to set the controls for the exact room temperature you want within any given space.

#### How does it work?

Mr. Slim cooling and heating solutions are perfect for almost any space because their innovative engineering optimizes the capabilities of the INVERTER technology and R410A refrigerant for more efficient systems with smaller indoor and outdoor units. R410A refrigerant is environmentally friendly and does not deplete the ozone. The systems themselves are also made of recyclable materials. To find out more about Mr. Slim split-ductless products or to locate an authorized Diamond Dealer near you, visit www.mrslim.com.





#### **GLOSSARY**

AIR CONDITIONER: A mechanical device used to control temperature and air movement in a confined space.

Btu/h (British Thermal Units per Hour): A measure of cooling or heating capacity.

**CAPACITY or LOAD:** A refrigeration rating system usually measured in Btu/h.

**COMPRESSOR:** A refrigeration or air-conditioning system pump that circulates refrigerant through pipes between an outdoor and indoor unit using pressure.

**HEAT PUMP:** An air-conditioning system can reverse the direction of refrigerant flow to provide either cooling or heating to the indoor space.

HSPF (Heating Season Performance Factor): A rating of the seasonal efficiency of a heat pump unit when operating in the heating mode.

**HVAC:** A term which stands for Heating, Ventilation and Air Conditioning.

INDOOR UNIT: The air handler of an air-conditioning system, which contains a heat exchange coil, filters, remote signal receiver and fan and provides conditioned air into the space.

INVERTER TECHNOLOGY: Mitsubishi Electric's MUY, MUZ and all P-Series outdoor units use INVERTER-driven compressor technology (Variable Frequency Drive) to provide exceptional indoor highspeed cooling and heating. By responding to indoor and outdoor temperature changes, these systems reduce power consumption by varying the compressor speed for extra energy savings. The system operates only at the levels needed to maintain a constant and comfortable indoor environment. Our CITY MULTI® product line also incorporates INVERTER technology. (Visit www.mrslim.com for details.)

MICROPROCESSOR: An electrical component consisting of integrated circuits, which may accept, store, control and output information.

**OUTDOOR UNIT:** A component of an air-conditioning system which contains compressor, propeller fan, circuit board and heat exchange coil. It pumps refrigerant to/from indoor unit.

**REFRIGERANT:** A gas/liquid substance used to provide cooling by direct absorption of heat. Mitsubishi Electric products use environmentallyfriendly R410A refrigerant.

**REFRIGERANT LINES:** Copper tubing through which refrigerant flows to and from indoor and outdoor units.

SEER (Seasonal Energy Efficiency Ratio): A rating of the seasonal efficiency of air-conditioning or heating units in cooling mode.

SPLIT-DUCTLESS SYSTEM: A system comprised of a remote outdoor condensing unit connected by refrigerant pipes to a matching, non-ducted indoor air handler and a remote controller. Special cases for introducing ventilated air may call for limited ducting to air handler from outside.

**INVERTER TECHNOLOGY: Pages 06-07** 

M-SERIES: 9,000-36,000 Btu/h

Residential and Select Commercial Applications

Overview of Product Line Pages 08 - 09

Product Lineup and Technology Descriptions Pages 10 - 11

MS/MSY SINGLE-ZONE, WALL-MOUNTED:

Air Conditioners - Specifications Pages 12 - 13

MSZ SINGLE-ZONE, WALL-MOUNTED: Air Conditioners and Heat Pumps

- Specifications Pages 14 - 15



Pages 16 - 17

MXZ Multi

MSZ-A09NA (4)

#### P-SERIES: 12.000-42.000 Btu/h

Commercial, Institutional and Large Residential

Product Lineup and Technology Descriptions Pages 18 - 19

**H2i**<sup>™</sup> HYPER-HEATING INVERTER: Heat Pump System - Specifications Pages 20 - 23

**PKA** WALL-MOUNTED: Air Conditioners and Heat Pumps - Specifications

Pages 24 - 26

**PLA CEILING-RECESSED CASSETTE:** Air Conditioners and Heat Pumps

- Specifications Pages 27 - 29

**PCA** CEILING-SUSPENDED: Air Conditioners and Heat Pumps - Specifications Pages 30 - 32

> RATING CONDITIONS, REFRIGERANT TUBING AND LINE LENGTHS: Page 33

ACCESSORIES: Page 34

LINE-HIDE™ AND DIAMONDBACK™ BALL VALVES: Page 35







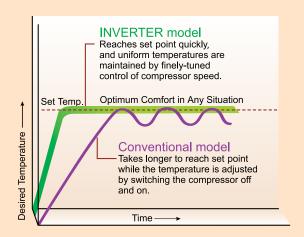
### **INVERTER Technology for Exceptional** Year-round Comfort and Performance

Certain straight-cool and all heat pump outdoor units use Mitsubishi Electric's INVERTER-driven compressor technology (Variable Frequency Drive) to provide exceptional, high-speed cooling and heating performance. Thanks to high rotation speeds, desired temperatures are reached more quickly than with conventional systems so you can enjoy your ideal level of comfort without delay.

Like a car's cruise control, the system varies the compressor speed, which reduces power consumption for extra energy savings. The system adjusts itself precisely to the level needed to maintain a consistently comfortable indoor environment. Precise rotation speed control allows the system to maintain a comfortable, consistent room temperature.

### **High-speed Performance** When You Need It

High rotation compressor speeds cool and heat a room quickly, saving both energy and cash. The compressor speed is controlled to maximize efficiency, changing speeds according to the cooling and heating load of a room.





**INVERTER-driven Compressor** 

(not shown to scale)





# **Optimum Comfort Year-round**

INVERTER-driven systems detect subtle changes in temperature and automatically adjust compressor speed unlike conventional units, which start and stop repetitively. Precise rotation speed efficiently maintains desired temperature, reducing temperature swings, and provides a more comfortable climate.

# **Extra Energy Savings**

For optimum performance INVERTER technology delivers only the energy needed to satisfy the cooling and heating load in a room reducing energy consumption. Our CITY MULTI® VRFZ residential and commercial product line also employs INVERTER technology. Like Mr. Slim products the CITY MULTI INVERTER-driven systems give you increased performance capabilities and design flexibility, making Mitsubishi Electric products the best choice for any of your cooling and heating applications. Visit www.mehvac.com for more information about CITY MULTI technology.



RESIDENTIAL AND SELECT COMMERCIAL

Comfort is a home that's cool and dry in the summer and cozy and warm in the winter. This environment is what you get with the Mr. Slim system: perfect year-round comfort. The M-Series systems install easily. Mounted high on the wall, the indoor unit blends into most room environments without taking up any window space. These systems also feature automatic cooling/heating changeover, which automatically switches the system between cooling and heating to compensate for fluctuating temperatures. They're nearly silent because their fans deliver air quietly and continuously with only a gentle whoosh for constant circulation and filtration. (This capability is the reason Mr. Slim systems were the first choice for thousands of churches, schools and libraries across the U.S.) Our M-Series systems are the perfect way to cool or heat any room in your home. M-Series INVERTER systems provide high-speed and efficient cooling and heating performance to keep your home consistently cozy year-round.









### **Superior INVERTER** Technology

Now you can benefit from technology that outperforms conventional systems with Mitsubishi Electric's INVERTER technology. Precise rotation speed control helps you keep temperatures consistent. At high rotation speeds you get faster cooling and heating. At low rotation speeds the temperature is efficiently maintained, and starting currents are kept at low levels so they do not affect other appliances. Pulse Amplitude Modulation (PAM) keeps efficiency high by ensuring that the system effectively uses 98 percent of input power supply.

### No Ductwork Required

Mr. Slim systems require no ductwork, just a small, three-inch opening for two refrigerant lines and control and power wiring to connect the indoor and outdoor units. This feature allows for quicker installation, less mess, and a better-looking and more comfortable space. If you are adding on a room, you don't have to tie into an existing system to steal cool or warm air from other areas in the home. This advanced technology means better room control and increased comfort plus greater efficiency.

# Total, Healthy Comfort

The POWERFUL mode is available to cool or heat any desired space quickly by lowering the set temperature in cooling mode or raising the set temperature in heating mode by seven degrees. It increases the fan speed for 15 minutes. Auto changeover maintains consistent temperature in a room by automatically sensing whether the space needs cooling or heating. For challenging cooling environments, low-ambient temperature control means our systems perform effectively in cooling mode even when the external temperatures dip to as low as 14 degrees Fahrenheit. Even more important you can benefit from our anti-allergen filter. Using blue enzymes, this filter helps minimize germs, bacteria, and viruses.

#### **Control Technology**

With the new A-Control system the indoor unit is powered through the outdoor unit. Three polarity sensitive wires plus a ground conductor run from the outdoor to the indoor unit providing both power and communication. Advanced wireless remote control is standard on all M-Series models. On the INVERTER-driven units, an option for a wired wall controller is available.

# System Control in the Palm of Your Hand

Mr. Slim's M-Series offers a comprehensive remote controller that controls temperature, fan speed and more. Choose from four modes: COOL, HEAT, AUTO and DRY. The controller also has a 12-hour ON/OFF timer for one-button control of your personal comfort. Our new MSY(Z)-A24/D30/D36NA models add the WIDE VANE button to evenly distribute airflow to a wider angle (150 deg.) from right to left, maintaining a comfortable temperature across a wide area. The M-Series INVERTER models can tie into the P-Series wired controller and CITY MULTI® M-NET with adapter to give an on-the-wall controller option.

#### Warm Air, No Drafts

Our hot-start technology provides warmth from the beginning. The fan increases in speed as the coil is warmed, reducing drafts so when you want warm air, you'll get it.



M-Series MSY(Z)-D30NA Model Indoor Unit

Features	Benefits
INVERTER TECHNOLOGY	Maximizes energy savings by making sure only the energy needed to cool or heat an area is used.
NO DUCTWORK	Installs quickly and easily, having no need for major construction and remodeling
ZONE CONTROL	Realizes maximum control and energy efficiency by cooling and heating only those spaces desired
ADVANCED MICROPROCESSOR CONTROLS	Creates a comfortable environment no matter what conditions are outside with our advanced self-monitoring controls
CONVENIENT WIRELESS REMOTE CONTROL	Offers comfort control in the palm of your hand with our remote controller
WASHABLE LONG-LIFE ANTI-ALLERGEN FILTERS	Improves air quality and saves money by being washable rather than replaceable
AUTO COOL/HEAT CHANGEOVER	Switches automatically from cooling to heating
ENVIRONMENTALLY FRIENDLY	Uses R410A, an environmentally-friendly refrigerant.



M-Series Remote Controller



M-Series MUY(Z)-D30NA Model Outdoor Unit

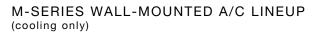
# More Efficiency, More Capacity

The M-Series product line now includes the MSZ-FD09/12NA model series with the highest ductless system rating in the industry at 23 SEER while being extremely quiet at a low 22dB(A) for the indoor unit. The MSY(Z)-D30/36NA systems bring the largest capacity to date for the M-Series at 2.5- and 3-tons respectively. For detailed information see the next page.

# **Cutting-edge Technology**

In every aspect of the Mr. Slim system, technology is utilized to make the units more energy-efficient and environmentally friendly while providing innovative comfort control. Our technology includes expanded filter systems, wide vane airflow, the i-see™ sensor and increased energy-efficiency (in select systems). Refer to the next page for more detailed information.











#### Multiple Filters for Cleaner, Healthier Air

Mr. Slim M-Series indoor units use a sophisticated multipart filter system to remove contaminants such as allergens, viruses and bacteria from the air as it circulates.

The hybrid catechin filter absorbs odor-causing gases. A blue-enzyme anti-allergen filter reduces germs, bacteria and viruses and helps trap dust, pollens, mites and other particles; the filter uses an enzyme catalyst to help break down the sulfur atom bonds in allergen proteins, transforming them into non-allergen proteins.

A hybrid-coating process makes the catechin filter washable and - if properly maintained with monthly cleanings - effective for more than 10 years.

The MSZ-FD09/12NA indoor units incorporate the M-Series standard Catechin filter plus two more filters for triple filtration. The second filter, a Blue-Enzyme filter, is a fibrous material, and its enzymes render allergens harmless. The third filter, a Platinum Catalyst Deodorizing filter, that has a ceramic surface absorption element and uses nanotechnology for high power odor absorption. This combination of filter types provides a complete air purifying system along with the ultimate comfort solution.

# **Energy Efficiency**

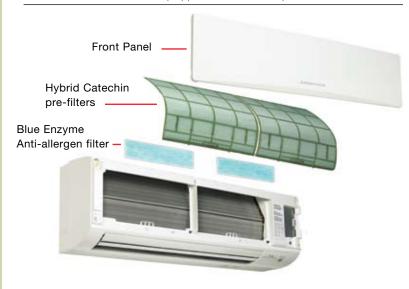
MSZ-FD09/12NA systems produce the highest ductless system ratings in the industry at 23 SEER while being extremely quiet at a low 22dB(A) for the indoor unit.

The increased energy efficiency, up to 35 percent over standard Mr. Slim M-Series systems and 70 percent over industry standard requirement of 13 SEER, is a result of a new powerful magnet rotor that allows for lower current input. With the increased energy efficiency and SEER ratings the MSZ-FD models are ENERGY STAR® Tier 2 certified.

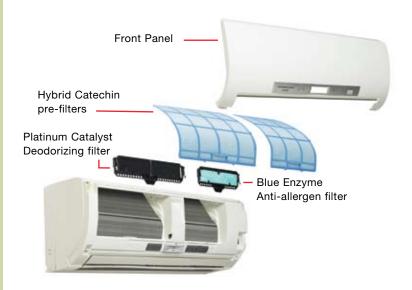
### High Heat from Low Energy

Even at 17° F the MSZ-FD09NA models produce 12.500 Btu/h of heat while the MSZ-FD12NA reaches to 13,600 Btu/h. All of this while being extremely energy-efficient.

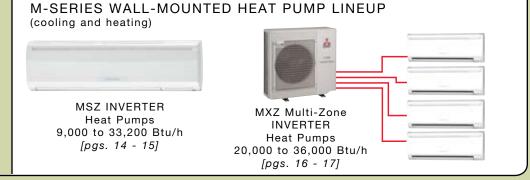
#### STANDARD FILTER SYSTEM (MS(Y)-D30NA MODEL SHOWN)



#### ENHANCED FILTER SYSTEM (MSZ-FD09/12NA MODELS)







#### **Excellent Air Distribution**

With the WIDE VANE or SWING mode, available on the MSY(Z)-A24/D30/36NA, there is an option for seven horizontal airflow directions that provide 150 degrees of airflow for greater conditioned air circulation.



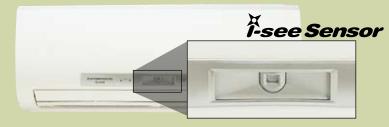
#### **Quiet Operation**

Do you hear that? No? You barely hear our systems because Mr. Slim indoor units operate with nearly a whisper of sound. A police siren, for example, has a sound level of 118 decibels; a circular saw produces 107 decibels of sound. A vacuum cleaner in your home creates 74 decibels of noise. Even a library environment is at 33 decibels while a whisper-tone voice produces 35 decibels. Certain Mr. Slim units operates as low as 22 decibels in low speed and others range from 26 to 34 decibels in low speed, all lower than a whisper-tone voice.

Did you hear that? We hope you did.

#### i-see<sup>™</sup> Sensor (MSZ-FD09/12NA models only)

The i-see sensor detects the always troublesome regions of temperature closer to the ceiling and the floor. The i-see sensor also controls the airflow up to a wide 150° lateral angle for ultimate comfort (90° angle in cooling mode) by scanning the room and making adjustments based on the ambient temperature readings. Through this process the MSZ-FD09/12NA systems achieve superior cooling/heating performance with extremely efficient operation.



#### Multi-zone Heat Pump System Attributes

Multi-zone systems mean that people can enjoy their ideal level of comfort no matter where they are in the home. Each zone operates independently. People in the kitchen, master bedroom or living room can all enjoy the temperatures that makes them feel most comfortable.

If you're looking for a complete comfort solution for several different rooms, the MXZ multi-zone system is the right choice for you. You can use up to 19 different indoor unit combinations so the system is flexible enough to conform to your particular cooling and heating needs with up to four rooms from one outdoor unit.









**Model Name** 

Cooling \*1

Power Supply

Voltage

Indoor Unit

Outdoor Unit

Remote Controller

Refrigerant

Refrigerant Pipe

Connection Method

### MS/MSY COOLING-ONLY

#### M-SERIES Specifications

Btu/h

Btu/h

SEER

Pints/h

F.L.A.

dB(A)

W: In.

D: In.

H: In.

Lbs.

F.L.A. Model (Type)

R.L.A.

L.R.A.

CFM

dB(A)

W: In.

D: In.

H: In.

Lbs.

Lbs., Oz.

ln.

Ft.

Type (Fl. Oz.)

(Time Delay) A

ln. Α

DRY (CFM)

WET (CFM)

W

**Indoor Unit** 

**Outdoor Unit** 

Rated Capacity

Capacity Range

Energy Efficiency

Moisture Removal

Sensible Heat Factor

Phase, Cycle, Voltage

Airflow (Lo-Med-Hi)

Sound Pressure Level

External Finish Color

Field Drainpipe Size O.D.

(Lo-Med-Hi)

**Dimension Unit** 

Max. Fuse Size

Fan Motor

Compressor

(Cooling) \*1 External Finish Color

Dimensions

Weight

Charge

Gas Side O.D.

Length (Max.)

Indoor/Outdoor

Liquid Side O.D.

Height Difference (Max.)

٥il

Туре Type

Refrigerant Control

Sound Pressure Level

Airflow

Weight Unit

Indoor - Outdoor L1 N / S1-S2

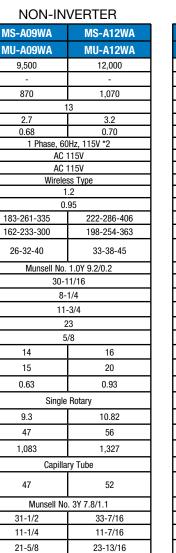
Indoor - Outdoor L2 / S2-S3

Indoor - Remote Controller

Total Input

MCA Fan Motor





96

3, 1

1/2

Wireless Remote

R410A

NE022 (10.8)

1/4

35

65

Flared/Flared



MSY-A15NA	MSY-A17NA
MUY-A15NA	MUY-A17NA
15,000	16,200
3,100-15,000	3,100-16,200
1,690 (210-1,690)	2,070 (210-2,070)
	16
4.7	5.1
	.65 z, 208/230V *2
AC 20	8-230V
	2-24V
	Wired Controller: DC12V)
	.76
	28-381
	93-342
	34-40-46
34-40-45	
	1.0Y 9.2/0.2
	11/16
	1/4
	-3/4
	23 5/8
	14
	15
	.52
	riven Twin Rotary
	0.1
·	12
1,	249
Linear Exp	ansion Valve
50	52
Munsell No	o. 3Y 7.8/1.1
31	-1/2
11	-1/4
21	-5/8
	38
Wireless Remote (Op	tional Wired Controller)
R4	10A
	, 7
	2 (15.2)
	/2
	/4
	40
(	65
Flared	d/Flared

#### NOTES: Test conditions are based on ARI 210/240.

78

2, 5

3/8

<sup>\*1</sup> Rating conditions (cooling) - Indoor D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).

<sup>\*2</sup> Indoor units receive power from outdoor units through field-supplied interconnected wiring. Specifications are subject to change without notice.









# MSY COOLING-ONLY (CONT.)

#### M-SERIES Specifications

Model Name	Indoor Uni	t	MSY-A24NA	MSY-D36NA			
Model Name	Outdoor Un	it	MUY-A24NA	MUY-D30NA	MUY-D36NA		
	Rated Capacity	Btu/h	22,000	30,700	34,600		
	Capacity Range	Btu/h	4,400-22,000	9,800-30,700	9,800-34,600		
Cooling *1	Total Input	w	2,880 (290-2,880)	3,380 (620-3,380)	4,240 (620-4,240)		
Cooling *1	Energy Efficiency	SEER	. , ,	16	15.1		
	Moisture Removal	Pints/h	7.3	9.9	11.9		
	Sensible Heat Factor		0.63	0.64	0.62		
Power Supply	Phase, Cycle, Voltage			1 Phase, 60Hz, 208/230V	! *2		
	Indoor - Outdoor S1-S2			AC 208-230V			
Voltage	Indoor - Outdoor S2-S3			DC12-24			
	Indoor - Remote Controller		Wireless T	ype (Optional Wired Cont	roller: DC12V)		
	MCA	Α		1.0	1		
	Fan Motor	F.L.A.		0.76			
	Airflow (Lo-Med-Hi) *1	DRY (CFM)	296-431-568		39-848		
		WET (CFM)	265-385-508	350-5	576-763		
	Sound Pressure Level	dB(A)	34-40-49	32-	42-49		
Indoor Unit	(Lo-Med-Hi) *1 External Finish Color	``'		Munsell No. 1.0Y 9.2/0.	2		
	External Fillish Color	W: In.	43-5/16		<u>-</u> -1/16		
	Dimension Unit	D: In.	10-1/4	<del></del>	-5/8		
	Difficusion offic	H: In.	12-13/16		-3/8		
	Waight Unit	1	37	·	40		
	Weight Unit	Lbs.	31		40		
	Field Drainpipe Size O.D.	In.	47	5/8	01		
	MCA	A	17	<del></del>	21		
	MOCP For Meter	A	20	0.93			
	Fan Motor F.L.A.						
	Compressor	Model (Type)	DC INVERTER-driven Twin Rotary				
	Compressor	R.L.A.		10.1 16			
	A' G	L.R.A.	16		20		
Outdoor Unit	Airflow	CFM	1,729 1,941				
Outdoor Offic	Refrigerant Control	,		Linear Expansion Valve	9		
	Sound Pressure Level (Cooling) *1	dB(A) *1	55				
	External Finish Color		Munsell No. 3Y 7.8/1.1				
		W: In.	33-1/16	33-	-1/16		
	Dimensions	D: In.	13	<del></del>	13		
		H: In.	33-7/16		-7/16		
	Weight	Lbs.	128	1	26		
Remote Controller	Туре			Wireless Remote			
	Туре			R410A			
Refrigerant	Charge	Lbs., Oz.		4			
	Oil	Type (Fl. Oz.)	NE022 (15.2)	NEO:	22 (29)		
	Gas Side O.D.			5/8			
	Liquid Side O.D.	In.	1/4	;	3/8		
Refrigerant Pipe	Height Difference (Max.)			50			
	Length (Max.)	Ft.		100			
Connection Method	Indoor/Outdoor	_		Flared/Flared			

NOTES: Test conditions are based on ARI 210/240.

Specifications are subject to change without notice.

<sup>\*1</sup> Rating conditions (cooling) - Indoor D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).

<sup>\*2</sup> Indoor units receive power from outdoor units through field-supplied interconnected wiring.









#### MSZ HEAT PUMP

# M-SERIES Specifications





energy
EPA POLLUTION PREVENTE

			EPA POLLUTION PREVENTER	EPA POLLUTION PREVENTER		EPA POLLUTION PREVENTER			
	Indoor Un	it	MSZ-A09NA	MSZ-FD09NA	MSZ-A12NA	MSZ-FD12NA			
Model Name	Outdoor Ur	nit	MUZ-AO9NA	MUZ-FD09NA	MUZ-A12NA	MUZ-FD12NA			
	Rated Capacity	Btu/h	9,000	9,000	12,000	12,000			
	Capacity Range	Btu/h	5,500-9,000	2,800-9,000	5,700-12,000	2,800-12,000			
Cooling *1	Total Input	W	690 (390-690)	650 (160-650)	1,170 (395-1,170)	960 (160-960)			
	Energy Efficiency	SEER	17	23	17	22			
	Moisture Removal	Pints/h	2.3	2.1	3.2	2.9			
	Sensible Heat Factor		0.71	0.76	0.70	0.73			
	Rated Capacity	Btu/h	10,900	10,900	13,600	13,600			
	Capacity Range	Btu/h	5,200-12,600	3,000-18,000	5,200-13,600	3,000-21,000			
Heating at 47° F *2	Total Input	w	860 (350-1,100)	750 (150-2,400)	1,160 (350-1,160)	980 (150-2,400)			
	HSPF (Region IV)	Btu/h/W	8.2	10.55	8.2	10.55			
	Capacity	Btu/h	7,700	12,500	8,300	13,600			
Heating at 17° F *3	Total Input	W	880	1,730	930	1,780			
Power Supply	Phase, Cycle, Voltage	1	000	· '	z, 208/230V *4	1,700			
i ower ouppry	Indoor - Outdoor S1-S2		<u> </u>		18-230V				
Voltage	Indoor - Outdoor S2-S3				2-24V				
	Indoor - Remote Controller			••••	Wired Controller: DC12V				
	MCA For Motor	F.L.A.	-		1.0				
	Fan Motor Airflow (Cool)	DRY (CFM)	152-229-307	162-226-339	.76 152-240-353	162-226-381			
	(Lo-Med-Hi) *1	WET (CFM)	134-205-275	144-202-307	134-215-318	144-202-350			
	Airflow (Heat) (Lo-Med-Hi) *2	DRY (CFM)	159-222-307	166-240-367	159-240-353	166-240-399			
	Sound Pressure Level	(0)	1		i				
	(Cooling) (Lo-Med-Hi) *1	-ID(A)	22-33-38	22-31-39	22-34-42	22-33-43			
1. 4 11.2	Sound Level Pressure	dB(A)	22-33-38	22-31-40	22-34-42	22-33-43			
Indoor Unit	(Heating) (Lo-Med-Hi) *2		22-33-30			22-33-43			
	External Finish Color		ļ		. 1.0Y 9.2/0.2				
		W: In.	30-11/16	31-7/16	30-11/16	31-7/16			
	Dimension Unit	D: In.	8-1/4	10-1/8	8-1/4	10-1/8			
		H: In.	11-3/4	11-5/8	11-3/4	11-5/8			
	Weight Unit	Lbs.	23	27	23	27			
	Field Drainpipe Size O.D.	In.	5		5/8				
	MCA	Α			12				
	MOCP	Α			15				
	Fan Motor	F.L.A.	0.52	0.56	0.52	0.56			
		Model (Type)	DC INVERTER-driven Twin Rotary						
	Compressor	R.L.A.	7.8	8.6	7.8	8.6			
		L.R.A.	9.2	10.8	9.2	10.8			
	Airflow	CFM	1,129 1,102/1,187 1,094 1,102/1,187						
Outdoor Unit	Refrigerant Control		Linear Expansion Valve						
	Defrost Method	1	Reverse Cycle						
	Sound Pressure Level	dB(A) *1	48						
	External Finish Color	Inc.	Munsell No. 3Y 7.8/1.1						
	Dimensione	W: In.	31-1/2						
	Dimensions	D: In.			-1/4				
	Weish	H: In.	75		-5/8	1 00			
	Weight	Lbs.	75	80	82	80			
Remote Controller	Туре			Wireless Remote (Op	tional Wired Controller)				
	Туре			R4	10A				
Refrigerant	Charge	Lbs., Oz.	2	2, 9	2, 5	2, 9			
	Oil	Type (Fl. Oz.)	NE022 (10.8)	NE022 (29)	NE022 (10.8)	NE022 (29)			
	Gas Side O.D.	ln.			3/8				
Dofrigoront Dino	Liquid Side O.D.	III.			1/4				
Refrigerant Pipe	Height Difference (Max.)				40				
	Length (Max.)	Ft.			65				
Connection Method	Indoor/Outdoor			Flared	d/Flared				

NOTES: Test conditions are based on ARI 210/240.

<sup>\*1</sup> Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).

<sup>\*2</sup> Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).

<sup>\*3</sup> Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).

<sup>\*4</sup> Indoor units receive power from outdoor units through field-supplied interconnected wiring. Specifications are subject to change without notice.









# MSZ HEAT PUMP (CONT.)

M-SERIES Specifications

	Indoor Uni	t	MSZ-A15NA	MSZ-A17NA	MSZ-D30NA MSZ-D36NA				
Model Name	Outdoor Un	it	MUZ-A15NA	MUZ-A17NA	MUZ-A24NA	MUZ-D30NA	MUZ-D36NA		
	Rated Capacity	Btu/h	15,000	16,200	22,000	30,700	33,200		
	Capacity Range	Btu/h	3,100-15,000	3,100-16,200	4,400-22,000	9,800-30,700	9,800-33,200		
	Total Input	W	1,690 (210-1,690)	2,070 (210-2,070)	2,880 (290-2,880)	3.850 (620-3.850)	4,360 (620-4,36		
Cooling *1	Energy Efficiency	SEER	16		16	14.5			
	Moisture Removal	Pints/h	4.7	5.1	7.3	9.9	11.3		
	Sensible Heat Factor	111110/11	<del>                                     </del>	65	0.63	0.64	0.62		
	Rated Capacity	Btu/h	18,000	20,100	23,200	32,600	35,200		
	Capacity Range	Btu/h		20,900	3,600-24,400	8,700-34,000	8,700-36,000		
Heating at 47° F *2	Total Input	W	1,790 (250-2,330)	2,150 (250-2,330)	2,350 (260-2,570)	3.360 (520-3.600)	3,840 (520-4,10		
	HSPF (Region IV)	Btu/h/W	8.2	8.2	2,000 (200 2,010)	8.2	0,040 (020 4,10		
	Capacity	Btu/h		000	15,200	20,800	22,800		
Heating at 17° F *3	Total Input	W		740	1,960	2,620	3,000		
Paular Cupply	<del>                                     </del>	1 **	1,,		Phase, 60Hz, 208/230V		3,000		
Power Supply	Phase, Cycle, Voltage Indoor - Outdoor S1-S2				AC 208-230V	4			
/oltage	Indoor - Outdoor S1-S2				DC12-24				
rollage	Indoor - Remote Controller			Wireless T	pe (Optional Wired Cont	roller: DC12V)			
	MCA	Α			1.0				
	Fan Motor	F.L.A.			0.76				
	Airflow (Cool)	DRY (CFM)	268-3	28-381	296-431-568	389-6	39-848		
	(Lo-Med-Hi) *1	WET (CFM)	240-2	93-342	265-385-508	350-5	76-763		
	Airflow (Heat) (Lo-Med-Hi) *2	DRY (CFM)	254-3	14-381	296-486-568	445-6	39-848		
	Sound Pressure Level	<b>)</b>	04.40.45	04.40.40	24 42 42				
	(Cooling) (Lo-Med-Hi) *1		34-40-45	34-40-46	34-40-49	32-4	2-49		
	Sound Level Pressure	dB(A)							
	(Heating) (Lo-Med-Hi) *2		34-3	88-44	34-40-48	34-4	2-49		
	External Finish Color				Munsell No. 1.0Y 9.2/0.	2			
	External Fillion Color	W: In.	30-11/16	30-11/16	43-5/16		1/16		
	L	-							
	Dimension Unit	D: In.	8-1/4	8-1/4	10-1/4	11-5/8			
		H: In.	11-3/4			14-	-3/8		
	Weight Unit	Lbs.	23	23	37	4	10		
	Field Drainpipe Size O.D.	ln.			5/8				
	MCA	Α	1	4	17	2	<u> </u>		
	MOCP	A	<del></del>	5	20		25		
			•		20		.5		
	Fan Motor	F.L.A.	0.52	0.52	   INVERTER-driven Twin F	0.93			
	1	Model (Type)							
	Compressor	R.L.A.		10.1		1	6		
	1	L.R.A.	12		16	20			
	Airflow	CFM	1.2	249	1,729	941			
Outdoor Unit	Refrigerant Control		.,.	- 10	Linear Expansion Valve				
	Defrost Method		1		Reverse Cycle				
	Sound Pressure Level	dB(A) *1	50	52	55	56			
	External Finish Color	Table 1	- "	<u> </u>	Munsell No. 3Y 7.8/1.1				
	External Finish Color	W: In.	21	1/0	Widilsell No. 51 7.0/1.				
	l		-	-1/2		33-1/16			
	Dimensions	D: In.		-1/4		13			
		H: In.	21-	-5/8	33-7/16	33-	7/16		
	Weight	Lbs.	8	88	128	1-	41		
Remote Controller	Туре	•	Ì		Wireless Remote	•			
	Туре		1		R410A				
Refrigerant	Charge	Lbs., Oz.	2	, 7	4				
gorant	Oil	Type (Fl. Oz.)		? (15.2)	NEO 22(15.2)		2 (29)		
	<u> </u>	ι γρο (ι Ι. ΟΖ.)							
	Gas Side O.D.	ln.	<u> </u>	/2	5/8		/8		
Refrigerant Pipe	Liquid Side O.D.		ļ	1/4	•		/8		
J	Height Difference (Max.)	Ft.		10		50			
	Length (Max.)		. 6	55		100			
Connection Method	Indoor/Outdoor		I		Flared/Flared				

NOTES: Test conditions are based on ARI 210/240.

- \*1 Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).
- \*2 Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C). \*3 Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).

Specifications are subject to change without notice.

<sup>\*4</sup> Indoor units receive power from outdoor units through field-supplied interconnected wiring.



# MXZ-MULTI INVERTER HEAT PUMP

M-SERIES Specifications







Model Name		Outdoor Unit		MXZ-2A20NA *5	MXZ-3A30NA *6	MXZ-4A36NA *7			
		Rated Capacity	Btu/h	20,000	28,400	36,000			
	Cooling *1	Capacity Range	Btu/h	7,800-20,000	12,600-28,400	12,600-36,400 3,820 (1,000-3,900)			
		Total Input	W	2,150 (630-2,150)	3,250 (1,000-3,250)				
		Rated Capacity	Btu/h	22,000	28,600	36,000			
Indoor Unit	Heating at 47° F *2	Capacity Range	Btu/h	8,500-22,000	11,400-36,000	11,400-43,000			
		Total Input	w	1,780 (520-1,780)	2,180 (740-2,880)	3,100 (740-4,350)			
		Capacity	Btu/h	14,500	18,800	24,600			
	Heating at 17° F *3	Total Input	W	1,500	2,120	3,340			
Power Supply	Phase,Cycle,Voltage	e	•	1	Phase, 60Hz, 208-230	/ *8			
Voltage	Indoor - Outdoor S	1-S2			AC 208-230V				
voitage	Indoor - Outdoor S2	2-S3			DC12-24V				
	MCA		Α	1	5	19			
	MOCP		Α		20				
	Fan Motor		F.L.A.	0.96	0	.93			
			Model (Type)	DC I	NVERTER-driven Twin	Rotary			
	Compressor		R.L.A.	10.1 11		14.4			
	1		L.R.A.		15				
	Airflow (Cooling/Hea	Airflow (Cooling/Heating) *1/*2		1,485/1,640	1,365/1,605	2,068/2,068			
	Refrigerant Control			Linear Expansion Valve					
Outdoor Unit *4	Defrost Method			Reverse Cycle					
	Sound Pressure Lev (Cooling/Heating) *1		dB(A)	49/51 49/49		54/57			
	External Finish Cold	or		Munsell No. 5Y 8/1	o. 5Y 8/1 Munsell No. 3Y 7.8/1.1				
			W: In.	33-1/16	7/16				
	Dimensions		D: In.	13 (+1-3/16)	12-5/8	(+1-3/16)			
			H: In.	27-15/16	35-	7/16			
	Weight		Lbs.	130 148		150			
Remote Controller	Type			i	Wireless Remote				
	Туре			i	R410A				
Refrigerant	Charge		Lbs., Oz.	5/15	7/11	8/13			
Ü	Oil		Type (Fl. Oz.)	NEO22 (23.7)	NEO2	2 (29.4)			
	Gas Side O.D.			A, B: 3/8	A: 1/2; B, C: 3/8	A: 1/2; B, C, D: 3/8			
	Liquid Side O.D.		In.	, , , , , , , , , , , , , , , , , , ,	1/4				
Refrigerant Pipe	Height Difference (N	Max.)			49/33 *9				
3 1	Length (Max.)		f <sub>Ft.</sub>	164 (A+B)	230 (A+B+C)	230 (A+B+C+D)			
	Length (Each Indoo	r Unit)	1		82				
	Indoor/Outdoor			62 Flared/Flared					

NOTES: Test conditions are based on ARI 210/240. One indoor unit is turned off during low-speed testing under the new test conditions. Systems actually exhibit higher energy efficiencies during normal operation.

\*1 Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).

\*2 Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).

\*3 Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).

\*4 Refer to pages 12 and 13 for Indoor Unit specifications.

\*5 Data from combination of Indoor Units MSZ-A09NA and MSZ-A12NA.

\*6 Data from combination of Indoor Units MSZ-A09NA, MSZ-A09NA and MSZ-A12NA.

\*7 Data from combination of four MSZ-A09NA Indoor Units.

\*8 Indoor units receive power from outdoor units through field-supplied interconnected wiring.

\*9 49' Applies to installations where the outdoor unit is installed below the indoor unit.

Power factor equals 97 percent.

Specifications are subject to change without notice.

LIMITED WARRANTY | Six-year warranty on compressor. One-year warranty on parts. (Diamond Dealers add one year to parts warranty.)

#### **MXZ-3A30NA Combinations**

Indone Heit	Co	oling Cap	acity (Btu	ı/h)		Enorgy F	Efficiency	Curre	nt	Port Ac	lapter Requirements
Indoor Unit Combinations	Hea	ating Cap	acity (Btu	ı/h)	Power Usage	Ellergy i	Intellet	(A)		Size	Quantity and
(Unit A + Unit B + Unit C)	Unit A	Unit B	Unit C	Total	(W)	W) SEER HSPF		208V	230V	GIZC	Port Adapter Part No.
MSZ-A09NA +	9,000	9,000	-	18,000	1,800	1,800	10.0	8.92	8.07		N.A.
MSZ-A09NA	10,900	10,900	_	21,800	1,700	10.0	10.0	8.43	7.62		N.A.
MSZ-A09NA +	9,000	12,000	-	21,000	2,000	16.0	10.0	9.91	8.96	Į	N.A
MSZ-A12NA	10,900	13,600	-	24,500	1,980	10.0	10.0	9.81	8.87		N.A
MSZ-A09NA +	9,000	15,000	-	24,000	2,500	16.0	10.0	12.39	11.21		N.A.
MSZ-A15NA	10,100	16,900	_	27,000	2,200	1 16.0	10.0	10.90	9.86	Ì	N.A.
MSZ-A09NA +	9,000	16,200	-	25,200	2,700	16.0	10.0	13.38	12.10		N.A.
MSZ-A17NA	9,300	17,700	_	27,000	2,200	16.0	10.0	10.90	9.86	]	N.A.
1407 A00MA	7,600	20,400	-	28,000	3,200			15.86	14.34	0/0 // 5/011	(1) PAC-SG76RJ-E
MSZ-A09NA + MSZ-A24NA	7,300	19,700	-	27,000	1,980	16.0	10.0	9.81	8.87	3/8 X 5/8" or 1/2 X 5/8"	or (1) MAC-A456JP-E
MSZ-A12NA +	12,000	12,000	_	24,000	2,500	16.0	10.0	12.39	11.21	N.A.	
MSZ-A12NA	13,500	13,500	_	27,000	2,200	16.0	10.0	10.90	9.86		
MSZ-A12NA +	11,500	14,500	-	26,000	2,800	16.0	10.0	13.88	12.55	N.A.	
MSZ-A15NA	12,000	15,000	_	27,000	2,160	10.0	10.0	10.71	9.68		
MSZ-A12NA +	10,800	15,200	-	26,000	2,800	16.0	10.0	13.88	12.55	N.A.	
MSZ-A17NA	11,200	15,800	_	27,000	2,140	10.0	10.0 10.61 9.59		N.A.		
MSZ-A15NA +	13,000	13,000	-	26,000	2,800	16.0 10.0 13.88 12.55		3/8 X 1/2"	(1) MAC-A454JP-E		
MSZ-A15NA	13,500	13,500	_	27,000	2,120	10.0	10.0	10.51	9.50	3/6 X 1/2	(1) MAC-A4343F-E
MSZ-A15NA +	12,200	13,800	_	26,000	2,800	16.0	10.0	13.88	12.55	3/8 X 1/2"	(1) MAC-A454JP-E
MSZ-A17NA	12,700	14,300	_	27,000	2,110	10.0	10.0	10.46	9.46	3/6 X 1/2	(1) WAC-A43431 -L
MSZ-A17NA +	13,000	13,000		26,000	2,800	16.0	10.0	13.88	12.55	3/8 X 1/2"	(1) MAC-A454JP-E
MSZ-A17NA	13,500	13,500	_	27,000	2,100	10.0	10.0	10.41	9.41	3/0 X 1/2	(1) WAO-A43431 -L
MSZ-A09NA + MSZ-A09NA	9,000	9,000	9,000	27,000	2,860	16.0	10.0	14.18	12.82	1/2 X 3/8"	(1) MAC-A455JP-E
+ MSZ-A09NA	9,500	9,500	9,500	28,500	2,180	10.0	10.0	10.80	9.77	1/2 X 3/0	(1) WAO A40001 E
MSZ-A09NA + MSZ-A09NA	8,500	8,500	11,400	28,400	3,250	16.0	10.0	16.11	14.57	1/2 X 3/8"	(1) MAC-A455JP-E
+ MSZ-A12NA	8,600	8,600	11,400	28,600	2,180	10.0	10.0	10.80	9.77	1,2 1, 3, 3	(1) 111110 7110001 E
MSZ-A09NA + MSZ-A09NA	7,750	7,750	12,900	28,400	3,250	16.0	10.0	16.11	14.57	ļ	N.A.
+ MSZ-A15NA	7,800	7,800	13,000	28,600	2,180	10.0	10.0	10.80	9.77	ļ	14.7 %
MSZ-A09NA + MSZ-A09NA	7,300	7,300	13,800	28,400	3,250	16.0	10.0	16.11	14.57	ļ	N.A.
+ MSZ-A17NA	7,350	7,350	13,900	28,600	2,180	10.0	10.0	10.80	9.77		N.A.



Indoor Units
(Two indoor units must be installed.)

MXZ-3A30NA (3:1, 2:1)
Outdoor Unit

MSZ-A09NA
Indoor Units

MSZ-A12NA

(At least two indoor units must be installed.)

- Refer to combination chart for port adaptor references -

#### MXZ-4A36NA (4:1, 3:1) Outdoor Unit



(At least three indoor units must be installed.)

#### **MXZ-2A20NA Combinations**

Indoor Unit	Cooling	Capacity	(Btu/h)	Power	Ene	Energy		Current		
(Unit A + Unit B)	,	Capacity	(Btu/h)	Usage	Effici	iency	(#	4)	without notice.	
Combinations	Unit A	Unit B	Total	(W)	SEER	<b>HSPF</b>	208V	230V		
MSZ-A09NA +	9,000	9,000	18,000	1,740	16.0	8.5	8.62	7.8	change	
MSZ-A09NA	10,900	10,900	21,800	1,820	10.0	0.0	9.02	8.16	to ch	
MSZ-A09NA +	8,500	11,500	20,000	2,150	16.0	16.0	8.5	10.66	9.64	ect to
MSZ-A12NA	9,500	12,500	22,000	1,780	10.0	0.0	8.82	7.98	subject	
MSZ-A09NA +	7,500	12,500	20,000	2,150	16.0	8.5	10.66	9.64	are	
MSZ-A15NA*	8,250	13,750	22,000	1,780	10.0	0.0	8.82	7.98	Specifications	
MSZ-A12NA +	10,000	10,000	20,000	2,150	10.0	0.5	10.66	9.64	Ĵij	
MSZ-A12NA	11,000	11,000	22,000	1,780	16.0	8.5	8.82	7.98	Spec	

\*Port Adapter size = 3/8" x 1/2", Qty = 1, Part No. = MAC-A454JP-E

#### **MXZ-4A36NA Combinations**

Indoor Unit		Cooling	Capacity (	(Btu/h)		Power Efficiency			Curre	nt (A)	Port Adapter Requirements	
Combinations (Unit A + Unit B +	Heating Capacity (Btu/h)					Usage (W) SEE	SEER	HSPF	208V	230V	Size	Quantity and Port Adapter
Unit C + Unit D)	Unit A	Unit B	Unit C	Unit D	Total		OLLII	11011	2001	2000	O120	Part No.
MSZ-A09NA + MSZ-A09NA + MSZ-A09NA	9,000 10.800	9,000 10,800	9,000 10,800	-	27,000 32,400	2,860 2,700	16.0	8.5	14.18 13.38	12.82 12.10		N.A.
MSZ-A09NA + MSZ-A09NA + MSZ-A12NA	9,000 10,000	9,000 10,000	12,000 12,400	_	30,000 32,400	3,270 2,700	16.0	8.5	16.21 13.38	14.66 12.10		N.A.
MSZ-A09NA + MSZ-A09NA + MSZ-A15NA	8,800 8,900	8,800 8,900	14,500 14,600	-	32,100 32,400	3,500	16.0	8.5	17.35 13.38	15.69 12.10	İ	N.A.
MSZ-A09NA + MSZ-A09NA + MSZ-A17NA	8,200 8,400	8,200 8,400	15,700 15,600	-	32,100 32,400	3,500 2,700	16.0	8.5	17.35 13.38	15.69 12.10		N.A.
MSZ-A09NA + MSZ-A09NA	6,900	6,900	18,300	-	32,100	3,500	16.0	8.5	17.35	15.69	3/8 X 5/8" or	(1) PAC-SG76RJ- or
+ MSZ-A24NA	7,800 8,700	7,800 11,700	16,800 11,700	-	32,400 32,100	2,700 3,500	10.0	0.0	13.38 17.35	12.10 15.69	1/2 X 5/8"	(1) MAC-A456JP-
MSZ-A09NA + MSZ-A12NA + MSZ-A12NA	9,400	11,500	11,500	_	32,400	2,700	16.0	8.5	13.38	12.10		N.A.
MSZ-A09NA + MSZ-A12NA + MSZ-A15NA	8,000 8,300	10,700 10,400	13,400 13,700	-	32,100 32,400	3,500 2,700	16.0	8.5	17.35 13.38	15.69 12.10		N.A.
MSZ-A09NA + MSZ-A12NA + MSZ-A17NA	7,600 7,900	10,100 9,900	14,400 14,600	_	32,100 32,400	3,500 2,700	16.0	8.5	17.35 13.38	15.69 12.10		N.A.
MSZ-A09NA + MSZ-A15NA + MSZ-A15NA	7,500 7,600	12,300 12,400	12,300 12,400	_	32,100 32,400	3,500 2,700	16.0	8.5	17.35 13.38	15.69 12.10	3/8 X 1/2"	(1) MAC-A454JP
MSZ-A09NA + MSZ-A15NA + MSZ-A17NA	7,100 7,200	11,700 11,900	13,300 13,300	_	32,100 32,400	3,500 2,700	16.0	8.5	17.35 13.38	15.69 12.10	3/8 X 1/2"	(1) MAC-A454JP
MSZ-A09NA + MSZ-A17NA + MSZ-A17NA	6,700 7,000	12,700 12,700	12,700 12,700	_ _	32,100 32,400	3,500 2,700	16.0	8.5	17.35 13.38	15.69 12.10	3/8 X 1/2"	(1) MAC-A454JP
MSZ-A12NA + MSZ-A12NA + MSZ-A12NA	10,700	10,700	10,700	-	32,100	3,500	16.0	8.5	17.35	15.69		N.A.
MSZ-A12NA + MSZ-A12NA	10,800 9,900	10,800 9,900	10,800 12,300	_	32,400 32,100	2,700 3,500	<u> </u>		13.38 17.35	12.10 15.69		
+ MSZ-A15NA	9,700	9,700	13,000		32,400	2,700	16.0	8.5	13.38	12.10	<u> </u>	N.A.
MSZ-A12NA + MSZ-A12NA + MSZ-A17NA	9,400 9,300	9,400 9,300	13,300 13,800	-	32,100 32,400	3,500 2,700	16.0	8.5	17.35 13.38	15.69 12.10	<u> </u>	N.A.
MSZ-A12NA + MSZ-A15NA	9,100	11,500	11,500	-	32,100	3,500	16.0	8.5	17.35	15.69	3/8 X 1/2"	(1) MAC-A454JP
+ MSZ-A15NA	9,000	11,700 9,000	11,700 9.000	9,000	32,400 36,000	2,700 3,820	10.0	0.0	13.38 18.55	12.10 16.78	0,0 % 1,2	(1) 112 10 7 110 101
MSZ-A09NA + MSZ-A09NA + MSZ-A09NA + MSZ-A09NA	9,000	9,000	9,000	9,000	36,000	3,100	16.0	8.5	15.05	13.61	1/2 X 3/8"	(1) MAC-A455JP
MSZ-A09NA + MSZ-A09NA + MSZ-A09NA + MSZ-A12NA	8,300 8,300	8,300	8,300 8,300	11,100	36,000	3,820 3,100	16.0	8.5	18.55 15.05	16.78 13.61	1/2 X 3/8"	(1) MAC-A455JP
MSZ-A09NA + MSZ-A09NA	7,700	8,300 7,700	7,700	11,100 12,900	36,000 36,000	3,820	10.0	0.5	18.55	16.78	]	N A
+ MSZ-A09NA + MSZ-A15NA	7,700	7,700	7,700	12,900	36,000	3,100	16.0	8.5	15.05	13.61	<u> </u>	N.A.
MSZ-A09NA + MSZ-A09NA + MSZ-A12NA + MSZ-A12NA	7,700 7,700	7,700 7,700	10,300 10,300	10,300 10,300	36,000 36,000	3,820 3,100	16.0	8.5	18.55 15.05	16.78 13.61	1/2 X 3/8"	(1) MAC-A455JP

\*Port Adapter size = 3/8" x 1/2", Qty = 1, Part No. = MAC-A454JP-E

# COMMERCIAL, INSTITUTIONAL AND LARGE RESIDENTIAL

The Mr. Slim P-Series delivers flexible and convenient cooling and heating solutions to almost any commercial, institutional or large residential application. Choose from small, quiet indoor and outdoor units that operate with the increased efficiency you need. Whether in a church, office building, school, nursing home, restaurant, retail store, or equipment room, the compact design of the P-Series indoor units makes cooling and heating difficult spaces a breeze. With wall-mounted, ceiling-recessed and ceilingsuspended options, the P-Series is the perfect solution for almost any building. The P-Series provides up to 42,000 Btu/h of cooling or heating performance.

# **INVERTER Technology**

**INVERTER-driven** INVERTÉR compressor technology gives Mr. Slim systems a higher degree of cooling and heating abilities that outperform and manage energy more efficiently than conventional systems. Desired room temperature is reached more quickly and maintained more consistently. This capability eliminates the peaks and valleys of temperature swings that we're used to with conventional units.

The PKA and PLA indoor units can be used with our Hyper-Heating INVERTER (H2i<sup>™</sup>) outdoor heat pump units. These innovative H2i outdoor units are designed to deliver consistent, efficient cooling and heating even in extreme low outdoor temperatures from a single INVERTER-driven compressor system.

#### **Flexible Control**

Convenient and efficient zone control means you can cool or heat only the spaces in use. You can even have single or dual controllers connected to one system. The controller



does not even have to be in the space shared with the indoor unit. Features of the controller include a weekly timer. temperature range limiting, auto-off, expanded fault codes, and service call number display.

### **Low Ambient Operation**

The ability of these units to operate effectively in low temperatures along with the addition of a low-ambient wind baffle accessoryallows for a space to be air-conditioned even when it is as low as 0° F outside. This cooling ability is important when dealing with electronic equipment rooms, telecom substations, surveillance mechanical rooms, restaurant kitchens, fitness centers and more.

### **Redi-charged Systems**

P-Series outdoor units come with enough refrigerant to be installed 70 feet (PUY(Z)12-36) and up to 100 feet (PUY(Z)42) from the indoor units. Linesets can be run up to 100 feet from PUY(Z)12-18 outdoor units and 165 feet from PUY(Z)24-42 outdoor units when additional charge is added. Thanks to unique design profiles and R410A refrigerant, these systems are easier to fit into any space. R410A is environmentally friendly with zero Ozone Depletion Potential (ODP).

# **Hot-start System**

Mr. Slim heat pumps use our hot-start technology to provide warmth from the beginning by ramping up fan speed as the coil warms. When you want warm air without annoying drafts, that's what you'll get.

#### **Installation Service** and Maintenance Ease

P-Series outdoor units are designed with easy service and maintenance in mind. Maintenance points are located behind easy-access panels to make installation and service effortless for a trained technician. Fourway piping access allows connection in four directions: front, rear, right and bottom (all PUY/PUZ models). Using only three polarity sensitive wires plus a ground conductor run from the outdoor to the indoor unit, providing both power and communication connections. Two nonpolar wires connect the indoor unit and wall-mounted controller. This wiring design helps avoid installation errors. An optional wireless remote controller kit is available for the P-Series ceiling-mounted indoor units.



P-Series Wired Remote Controller



PKA Wall-mounted Air Conditioners and Heat Pumps 12,000 to 34,200 Btu/h [pgs.24-26]



PLA Ceiling-recessed Air Conditioners and Heat Pumps 12,000 to 42,000 Btu/h [pgs.27-29]

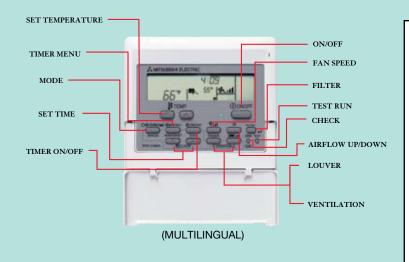


PCA Ceiling-suspended Air Conditioners and Heat Pumps 24,000 to 42,000 Btu/h [pgs.30-32]





Features	Benefits
INVERTER TECHNOLOGY	You can enjoy high-speed cooling and heating and consistent delivery of comfort year-round.
QUIET OPERATION	You can hold a board meeting or teach a class in quiet comfort.
NO DUCTWORK	There's no need to shut down for major construction because installation is quick and easy.
ZONE CONTROL	You can cool and heat only those spaces desired for maximum control and energy efficiency.
ADVANCED MICROPROCESSOR CONTROLS	Built-in electronics ensure efficient operation and maximum performance for optimum comfort.
LOW AMBIENT COOLING DOWN TO 0° F OUTDOORS (REQUIRES WIND BAFFLE)	This feature is perfect for computer network centers and telecom equipment rooms that need help to stay cool down to 0° Foutside
ENVIRONMENTALLY FRIENDLY	Mr. Slim systems use R410A, an environmentally-friendly refrigerant.



#### More Compact INVERTER-driven Outdoor Units

These Mr. Slim units employ advanced Pulse Amplitude Modulation (PAM). PAM adjusts the form of the current wave to emulate the form of the supply voltage wave so that 98 percent of input power is effectively utilized. PUZ-HA

#### PUY/PUZ









12,000-18,000 Btu/h

24,000-36,000 Btu/h

42,000 Btu/h

30,000-36,000 Btu/h

HYPER-HEATING INVERTER
P-SERIES HEAT PUMP SYSTEM
30,000 to 36,000 Btu/h Capacity

#### **Unequaled Year-round Comfort**

The cooling and heating success of Mitsubishi Electric's INVERTER heat pump systems is well-documented. Our Hyper-Heating INVERTER (H2i) technology advances the process a step further with the added benefit of year-round comfort with a single system even on the coldest days of the year in most places. The 3-ton wall-mounted or ceiling-recessed indoor units connected to the H2i outdoor units are flexible enough to satisfy almost any light commercial or institutional renovation or new construction project.



# The Next Generation in Heat Pump Technology

These H2i outdoor units give a new level of performance to Mr. Slim P-Series models, providing the extra heatgenerating power it takes to deliver comfort and consistency in extreme climates. H2i units use Mitsubishi Electric's INVERTER-driven scroll compressor technology to achieve the desired room temperature quickly and maintain it consistently while simultaneously conserving energy. Plus with the integration of our exclusive H2i flash technology, these units recover heat energy that is normally wasted in the flash process at the outdoor coil. This process helps the H2i system overcome issues commonly associated with conventional heat pumps such as decreases in low-side pressure, refrigerant mass flow rate and operational capacity. As a result H2i units exhibit 100 percent of rated heating capacity at 5° F and 80 percent at -13° F outdoor ambient temperatures (see Figure 1). Plus they use R410A environmentally-friendly refrigerant.

H2i heat pumps offer a variety of features designed to take the worry out of temperature control such as automatic restart in the case of power outages and automatic cool/heat changeover. And its long line-length capabilities of up to 245 ft. expand application possibilities.





Sometimes cooling spaces such as computer or mechanical rooms and kitchens is necessary even when the temperature is below freezing. Air conditioning down to 0° F outdoor ambient temperature is possible with the addition of a wind baffle. Whether cooling or heating the H2i P-Series gives you the flexibility to temper extreme outdoor temperatures.

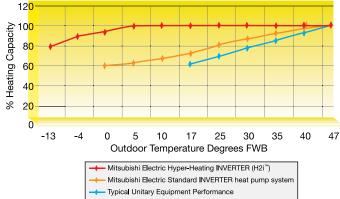
#### Warm Air Quickly!

At startup a special circuit quickly delivers refrigerant to the air-conditioning cycle. This process rapidly increases the mass flow rate in the system. As a result air at comfortable temperatures begins flowing from indoor units right away. Even at an outdoor temperature of -13° F, the H2i system can discharge 100° F temperature air from the indoor units. At 5° F outdoor temperature and above, the discharge temperature reaches an impressive 110° F with a 40° F temperature rise (see Figure 2). This feature translates into a comfortable climate in all zones of a home or office, whether cooling or heating, no matter the temperature outside.



(Figure 1)

#### Hyper-Heating INVERTER vs. Other Units % Heating Capacity vs. Outdoor Temperature



Does not include correction factor for defrost

#### **INDOOR UNITS:**

#### **PKA**

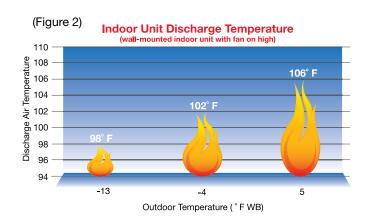
The PKA indoor unit is a compact and quiet wall-mounted unit that delivers exceptional cooling and heating performance.

- Hard-wired, wall-mounted, remote controller (-FA model) or wireless (-FAL model)
- · Adjustable vane control
- · Easy-clean filters

#### PLA

PLA-A\*\*-BA ceiling-recessed indoor unit offers increased application flexibility and ease of installation especially in tight spaces.

- Independent vane motor control: five fixed settings plus swing
- Auto wave airflow in heating mode: unit independently cycles through all vertical positions for a more even heat distribution
- Built-in drain lift mechanism for condensate removal; lifts up to 33-7/16 in.
- · Ventilation air intake
- · Easy-clean filters
- Optional i-see<sup>™</sup> sensor accessory

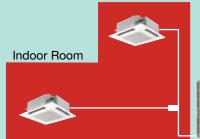






#### Two in One

If you have a large space such as a long room or hallway which would be considered one zone, two indoor units can be connected to the outdoor unit to cool or heat the space and provide the maximum amount of comfort. The process in which two indoor units act as one to spread the outdoor unit's capacity over a large area is called Twinning.





**Outdoor Unit** 

# Heating Performance at Low Temperatures

Our Hyper-Heating INVERTER system provides outstanding heating performance at extremely low temperatures while keeping effective energy usage at the forefront. Take a look at these impressive COP (Coefficient of Performance) values. The Mr. Slim H2i P-Series systems are able to maximize efficiency at low temperatures while providing tremendous heating output.

#### **Heating Performance** at Low Temperatures

#### **PUZ-HA30NHA**

COP	PK	PL
47° F	2.71	2.73
17° F	1.67	1.64
5° F	1.47	1.41

#### **PUZ-HA36NHA**

COP	PK	PL
47° F	3.59	3.45
17° F	2.10	2.10
5° F	1.90	1.90





# H2i<sup>™</sup> HEAT PUMP

#### P-SERIES Specifications





FA = Wired Controller	; FAL = Wireless Controller			****			
Model Name	Indoor Unit		PKA-A30FA(L)	PKA-A36FA(L)	PLA-A30BA	PLA-A36BA	
Wodel Name	Outdoor Unit	,	PUZ-HA30NHA	PUZ-HA36NHA	PUZ-HA30NHA	PUZ-HA36NHA	
	Rated Capacity	Btu/h	30,000	34,200	30,000	36,000	
	Capacity Range	Btu/h	18,000-30,000	18,000-34,200	18,000-30,000	18,000-36,000	
Cooling *1	Total Input	W	2,730	2,950	2,450	3,120	
Douling 1	Energy Efficiency	SEER	14.5	16.0	15.6	16.0	
	Moisture Removal	Pints/h	7.9	7.1	7.2	6.8	
	Sensible Heat Factor		0.70	0.77	0.73	0.79	
	Rated Capacity	Btu/h	32,000	38,000	32,000	38,000	
	Capacity Range	Btu/h	18,000-34,000	18,000-40,000	18,000-34,000	18,000-40,000	
Heating at 47° F *2	Total Input	W	3,460	3,100	3,440	3,230	
	HSPF (IV)	Btu/h/W	8.9	9.4	8.8	9.4	
U I' 1 470 F *0	Capacity	Btu/h	32,000	38,000	32,000	38,000	
Heating at 17° F *3	Total Input	W	5,600	5,300	5,720	5,300	
	Capacity	Btu/h	32,000	38,000	32,000	38,000	
Heating at 5° F *4	Total Input	W	6,370	5,860	6,630	5,860	
	Phase, Cycle, Voltage		,	Hz, 208 / 230V	1-Phase, 60H		
Power Supply	Breaker Size	Α		30		0	
	Indoor - Outdoor S1 - S2	1		8 / 230V		/ 230V	
Voltage	Indoor - Outdoor S2 - S3	-		24V		24V	
	Indoor - Remote Controller			ed Controller (FA)		12V	
	MCA	Α		.0	1.0	2.0	
	Fan Motor	F.L.A.	0.43	0.52	0.51	1.00	
	Fan Motor Output	W	45	70	50	120	
	·	DRY (CFM)	530-705 (Lo-Hi)	780-990 (Lo-Hi)	490-570-640-740 (Lo-M1-M2-Hi)	710-810-920-1,06 (Lo-M1-M2-Hi)	
Indoor Unit	Airflow	WET (CFM)	480-635 (Lo-Hi)	700-890 (Lo-Hi)	460-530-600-710 (Lo-M1-M2-Hi)	670-770-880-1,03 (Lo-M1-M2-Hi)	
	Sound Pressure Level	dB(A)	39-45 (Lo-Hi)	46-49 (Lo-Hi)	28-30-32-34 (Lo-M1-M2-Hi)	32-34-37-40 (Lo-M1-M2-Hi)	
	External Finish Color	Munsell No.	3.4Y	7.7/0.8	Grille: 6.4	Y 8.9/0.4	
		W: In.	55-1/8	66-1/8	33-1/16 (Gr	rille: 37-3/8)	
	Dimension Unit	D: In.	9-	1/4	33-1/16 (Gr	ille: 37-3/8)	
		H: In.	13	-3/8	10-3/16 (Grille: 1-3/8)	11-3/4 (Grille: 1-3/	
	Weight Unit	Lbs.	53	62	55 (Gri	lle: 13)	
	Drain Lift Mechanism (Included)	H: In.	N/A		33-	7/16	
	Field Drainpipe Size	ln.	I.D.:	13/16	0.D.: 1-1/4		
	MCA	Α	2	28	2	8	
	MOCP	Α	40		4	0	
	Fan Motor	F.L.A.	<del></del>		0.4 + 0.4 0.4 + 0		+ 0.4
	Fan Motor Output	w		+ 60	60 + 60		
		Model	DC INVERTER-driven Scroll DC INVERTER-dr				
	Compressor	R.L.A.		18	18		
		L.R.A.		7.5	27.5		
	Airflow	CFM	3,530 3,530				
	Refrigerant Control	JOI III	Electronic Expansion Valve		Electronic Expansion Valve		
Outdoor Unit	Defrost Method			se Cycle	Reverse Cycle		
		dD(A)		-			
	Sound Pressure Level at Cooling *1	dB(A)		52	52		
	Sound Pressure Level at Heating *2	dB(A)		53		3	
	External Finish Color	Munsell No.	3Y 7	.8/1.1	3Y 7.	8/1.1	
		W: In.	37	-3/8	37-	3/8	
	Dimensions	D: In.	13 +	1-3/16	13 +	1-3/16	
		H: In.	53	-1/8	53-	1/8	
	Waight	Lbs.	2	67	21	<del></del> 37	
	i vveiofit			th Indoor Unit	Located v		
Remote Controller	Weight		I OCSTED WIT		Locatou		
Remote Controller					Dη.	10A	
	Туре	l hs	R4	10A		10A 2	
	Type Charge	Lbs.	R4	10A 12	1	2	
	Type Charge Oil	Type (fl. oz.)	R4 FV50	10A 12 0S (45)	1 FV50	2 S (45)	
Refrigerant	Type Charge Oil Gas Side 0.D.	Type (fl. oz.) In.	R4 FV50	10A 12 0S (45) 5/8	1 FV503 5.	2 S (45) /8	
Refrigerant Refrigerant Pipe	Type Charge Oil Gas Side O.D. Liquid Side O.D.	Type (fl. oz.) In. In.	R4 FV50 5	10A 12 1S (45) 5/8	1 FV500 5.	2 S (45) /8	
Refrigerant Refrigerant Pipe Refrigerant Pipe	Type Charge Oil Gas Side O.D. Liquid Side O.D. Height Difference (Max.)	Type (fl. oz.) In. In. Ft.	R4 FV50 5 3	10A 12 0S (45) 6/8 8/8 00	1 FV50 5. 3.	2 S (45) /8 /8 00	
Refrigerant Refrigerant Pipe Refrigerant Pipe Length	Type Charge Oil Gas Side O.D. Liquid Side O.D.	Type (fl. oz.) In. In.	R4 FV50 5 3 1	10A 12 1S (45) 5/8 00 45	1 FV50: 5. 3. 11	2 S (45) /8 /8 00 45	
Refrigerant Refrigerant Pipe Refrigerant Pipe Length	Type Charge Oil Gas Side O.D. Liquid Side O.D. Height Difference (Max.) Length (Max.)	Type (fl. oz.) In. In. Ft.	R4 FV50 5 3 1 1 2	10A 12 IS (45) IS (45)	1 FV50: 5. 3. 10 24	2 S (45) /8 /8 00 45 red	
Remote Controller Refrigerant Refrigerant Pipe Refrigerant Pipe Length Connection Method Operating Temperature Range	Type Charge Oil Gas Side O.D. Liquid Side O.D. Height Difference (Max.)	Type (fl. oz.) In. In. Ft.	R4 FV50 5 3 1 1 2	10A 12 0S (45) 5/8 6/8 00 045 ared D.B. to 115° F D.B. v	1 FV50: 5. 3. 11	2 S (45) /8 /8 00 45 red	

#### Notes:

- \*1 Rating conditions (cooling)-Indoor: D.B. 26.7° C (80° F), W.B. 19.4° C (67° F); Outdoor: D.B. 35° C (95° F), W.B. 23.9° C (75° F).
- \*2 Rating conditions (heating)-Indoor: D.B. 21.1° C (70° F), W.B. 15.6° C (60° F); Outdoor: D.B. 8.3° C (47° F), W.B. 6.1° C (43° F).
- \*3 Rating conditions (heating)-Indoor: D.B. 21.1° C (70° F), W.B. 15.6° C (60° F); Outdoor: D.B. -8.3° C (17° F), W.B. -9.4° C (15° F).
- \*4 Rating conditions (heating)-Indoor: D.B. 21.1° C (70° F), W.B. 15.6° C (60° F); Outdoor: D.B. -15° C (5° F), W.B. -15° C (5° F).

LIMITED WARRANTY | Six-year warranty on compressor. One-year warranty on parts.

Specifications are subject to change without notice.





The PKA-Series fills small, critical and larger spaces with substantial cooling and heating from a compact, wall-mounted package. Walk into any room where a PKA system is installed, and all you'll notice is the perfectly comfortable climate. What you may not notice is the unit itself, which mounts high on the wall and blends into most spaces. The PKA-Series features an Auto Changeover mode that automatically switches back and forth between cooling and heating operation to compensate for indoor and outdoor temperature fluctuations.

#### **Auto Vane Control**

With a simple press of the OFF button the vane closes to cover the air outlet for a clean presentation when not in use. During operation the vane can be adjusted with the remote controller to the perfect position to direct the airflow horizontally in cooling mode or towards the floor in heating mode, keeping room temperature even and comfortable.

# **Easy-clean Filters**

Convenient tabs let you remove the washable filters quickly and easily for faster cleaning. You'll also save time and money because you won't need to replace the filters.



These Mr. Slim systems come with either a wired (GA/FA) or wireless (GAL/FAL) remote controller that puts you in command of your personal comfort.

# Lightweight, Easy-toinstall Indoor Unit

The smallest PKA unit measures about 39" wide, 13" tall and 9" deep. It weighs just 35 lbs. and is easily installed above windows or doorways and can typically be installed by just two licensed installers in about a half day. And Mr. Slim PKA-Series models don't even require ductwork, only a small three-inch opening in the wall or ceiling, so they can be installed in some of the toughest spaces, even on brick and masonry walls.

# Ultimate Comfort Meets Ultimate Convenience

Select from a wall-mounted, hard-wired controller (GA/FA) or a wireless remote controller (GAL/FAL) for ultimate comfort control. The hand-held Mr. Slim LCD wireless remote controller is easier to use than most TV remotes. The set-temperature display is large and easy to read. Using the 24-hour timer, you can get the unit operation to start and stop at specified times and to repeat daily. And the convenient remote provides easy control of the Fan Speed as well as the COOL, HEAT, AUTO and DRY modes from anywhere in the room.









### PKA COOLING-ONLY

P-SERIES Specifications

GA/FA = Wired controller GAL/FAL = Wireless controller BS = Seacoast Protection

BS = Seacoast Protection	<u>1</u>					To to		
Madal Nama	Indoor Un	it	PKA-A12GA PKA-A12GAL	PKA-A18GA PKA-A18GAL	PKA-A24FA PKA-A24FAL	PKA-A30FA PKA-A30FAL	PKA-A36FA PKA-A36FAL	
Model Name	Outdoor Ur	Outdoor Unit		PUY-A18NHA PUY-A18NHA-BS	PUY-A24NHA PUY-A24NHA-BS	PUY-A30NHA PUY-A30NHA-BS	PUY-A36NHA PUY-A36NHA-E	
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	34,200	
	Capacity Range	Btu/h	6,000-12,000	8,000-18,000	12,000-24,000	12,000-30,000	12,000-34,200	
0 11 44	Total Input	W	1,210	2,240	2,650	4,400	5,030	
Cooling *1	Energy Efficiency	SEER	13.8	14.1	13.5	13.0	13.1	
	Moisture Removal	Pints/h	1.5	4.8	4.7	8.1	7.1	
	Sensible Heat Factor	•	0.86	0.70	0.78	0.70	0.77	
Power Supply	Phase, Cycle, Voltage			1 Pr	nase, 60Hz, 208/230	)V *2		
11.7	Indoor - Outdoor S1-S2				AC 208-230V			
	Indoor - Outdoor S2-S3				DC24V			
Voltage	Indoor - Remote Controller			DC1	2V : Wired Type (GA	Δ/FΔ)	-	
	Indoor - Remote Controller				ireless Type (GAL/FA			
	MCA	A			1	<u>/</u>		
	Fan Motor	F.L.A.	0.	33	0.	.43	0.52	
	Fan Motor Output	W		30		15	70	
	Airflow (Lo-M1-M2-Hi) or	DRY (CFM)	320-350	-390-425	530	-705	780-990	
	(Lo-Hi)	WET (CFM)	290-315	-350-380	480	-635	700-890	
Indoor Unit	Sound Pressure Level (Lo-M1-M2-Hi) or (Lo-Hi)	dB(A)	36-38	-41-43	39	-45	46-49	
	External Finish Color		Munsell No. 0.70Y 8.59/0.97			Munsell No. 3.4Y 7.7/0.8		
	ZATOTHAN I WHOM GOIG!	W: In.	39 55-				66-1/8	
	Dimension Unit	D: In.	9-1/4			00 170		
	Dimonolon onic	H: In.			13-3/8			
	Weight Unit	Lbs.	35 53		53	62		
	Field Drainpipe Size I.D.	ln.	13/16					
	MCA	Α	13 18 2				5	
	MOCP	Α	15 20 30		0			
	Fan Motor	F.L.A.	0.35 0.75		0.75			
	Fan Motor Output	W	40 75					
		Model (Type)	DC INVERTER-driven Twin Rotary					
	Compressor	R.L.A			12			
		L.R.A.	14				17.5	
	Airflow	CFM	1,	200		1,940		
Outdoor Unit	Refrigerant Control			L	inear Expansion Val	ve		
	Sound Pressure Level (Cooling) *1	dB(A)	4	16	48			
	External Finish Color			N	Munsell No. 3Y 7.8/1.1			
		W: In.	31-	-1/2	37-3/8			
	Dimensions	D: In.	<del>!</del>	+ 7/8		13 + 1-3/16		
		H: In.	<del>-</del>	-5/8		37-1/8		
	Weight	Lbs.	90	97		163		
Remote Controller	Туре	•	1	GA/FA = Wired; GAL/	FAL = Wireless (Loc	ated with Indoor Uni	t)	
	Туре				R410A			
Refrigerant	Charge	Lbs., Oz.	2, 14	3, 12		6		
-	Oil	Type (Fl. Oz.)		66 (20)		MEL56 (28)		
	Gas Side O.D.	İ		/2		5/8		
	Liquid Side O.D.	ln.		/4		3/8		
Refrigerant Pipe	Height Difference (Max.)	<del> </del>	†	•	100	5/0		
	<u> </u>	Ft.		00	100	105		
	Length (Max.)	<u> </u>	1	00	L	165		
Connection Method	Indoor/Outdoor				Flared/Flared			

NOTES: Test conditions are based on ARI 210/240.

<sup>\*1</sup> Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).

<sup>\*2</sup> Indoor units receive power from outdoor units through field-supplied interconnected wiring. Specifications are subject to change without notice.









### PKA HEAT PUMP

P-SERIES Specifications

GA/FA = Wired controller GAL/FAL = Wireless controller BS = Seacoast Protection

S = Seacoast Protectio	"11					10	
Model Name	Indoo	r Unit	PKA-A18GA PKA-A18GAL	PKA-A24FA PKA-A24FAL	PKA-A30FA PKA-A30FAL	PKA-A36FA PKA-A36FAL	
Wouer Name	Outdoo	or Unit	PUZ-A18NHA Puz-A18NHA-BS	PUZ-A24NHA PUZ-A24NHA-BS	PUZ-A30NHA PUZ-A30NHA-BS	PUZ-A36NHA PUZ-A36NHA-B	
	Rated Capacity	Btu/h	18,000	24,000	30,000	34,200	
	Capacity Range	Btu/h	8,000-18,000	12,000-24,000	12,000-30,000	12,000-34,200	
	Total Input	W	2,240	2,650	4,400	5,030	
Cooling *1	Energy Efficiency	SEER	14.1	13.5	13	13.1	
	Moisture Removal	Pints/h	4.8	4.7	8.1	7.1	
	Sensible Heat Factor	į i iito/ii	0.70	0.78	0.70	0.77	
	Rated Capacity	Btu/h	19,000	26,000	32,000	37,000	
				<del>-</del>			
leating at 47° F *2	Capacity Range	Btu/h W	8,000-20,000	12,000-28,000	12,000-34,000	12,000-38,000	
	Total Input HSPF (Region IV)	Btu/h/W	2,130	2,570	3,660	3,610	
	<del>                                     </del>	<del></del>	8.3	8		8.3	
leating at 17° F *3	Capacity	Btu/h	13,000	16,000	23,000	25,000	
	Total Input	W	1,670	2,200	3,050	3,070	
ower Supply	Phase, Cycle, Voltage			1 Phase, 60Hz, 2			
	Indoor - Outdoor S1-S2			AC 208/2			
/oltage	Indoor - Outdoor S2-S3			DC24			
90	Indoor - Remote Controller			DC12V : Wired T			
	Indoor - Remote Controller			Wireless Type	(GAL/FAL)		
	MCA	A		1			
	Fan Motor	F.L.A.	0.33	0.		0.52	
	Fan Motor Output	W	30		5	70	
	Airflow (Lo-M1-M2-Hi) or	DRY (CFM)	320-350-390-425		-705	780-990	
	(Lo-Hi)	WET (CFM)	290-315-350-380	480-635		700-890	
	Sound Pressure Level	dB(A)	36-38-41-43	39.	-45	46-49	
Indoor Unit	(Lo-M1-M2-Hi) or (Lo-Hi)	db(ri)		00			
	External Finish Color		Munsell No. 0.70Y 8.59/0.97		Munsell No. 3.4Y 7.7/0	.8	
		W: In.	39	55-	1/8	66-1/8	
	Dimension Unit	D: In.		9-1/4	1		
		H: In.		13-3/	8		
	Weight Unit	Lbs.	35	5	3	62	
	Field Drainpipe Size I.D.	ln.		13/16	3		
	MCA	Α	13	18		25	
	MOCP	Α	20	30		40	
	Fan Motor	F.L.A.	0.35	0.75			
	Fan Motor Output	W	40				
		Model (Type)		DC INVERTER-drive	en Twin Rotary		
	Compressor	R.L.A.		12			
	1 '	L.R.A.	14		17.5		
	Airflow	CFM	1,200		1,940		
	Refrigerant Control	1 0	1,200	Linear Expans			
Outdoor Unit	Defrost Method	-					
Outdoor Offic	Sound Pressure Level			Reverse Cycle			
	(Cooling) *1		46	46 48			
		dB(A)		ł			
	Sound Pressure Level	, ,	47		50		
	(Heating) *2			<u> </u>			
	External Finish Color			Munsell No. 3			
		W: In.	31-1/2		37-3/8		
	Dimensions	D: In.	13 + 7/8		13 + 1-3/16		
		H: In.	23-5/8	37-1/8			
	Weight	Lbs.	99		165		
Remote Controller	Туре		GA/FA: Wired Con	ntroller; GAL/FAL: Wireles	s Controller (Located wit	h Indoor Unit)	
	Туре			R410.	Α	· · · · · · · · · · · · · · · · · · ·	
Refrigerant	Charge	Lbs., Oz.	3, 12		6		
-	Oil	Type (Fl. Oz.)	MEL56 (20)	1	MEL56 (28)		
Defile and Disc	Gas Side O.D.		1/2		5/8		
Refrigerant Pipe	Liquid Side O.D.	In.	1/4	ĺ	3/8		
	Height Difference (Max.)	Ft.	***	100			
Refrigerant Pipe Length	Length (Max.)	<b>1</b> '"	100	100	165		
	<del>                                     </del>	1	100				
Connection Method	Indoor/Outdoor			Flared/Fl	ared		
	_						

NOTES: Test conditions are based on ARI 210/240.

 $\textbf{LIMITED WARRANTY} \; \big| \; \textbf{Six-year warranty on compressor. One-year warranty on parts.} \\$ 

<sup>\*1</sup> Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).

<sup>\*2</sup> Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).

<sup>\*3</sup> Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 17° F (-8.3° C), W.B. 15° F (-9° C).

<sup>\*4</sup> Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.

PLA Indoor Unit (Same indoor unit is used for both cooling and heat pump systems)

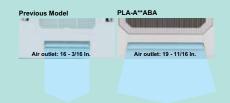
If there's at least a foot of space above your ceiling, the PLA-Series is for you. These models combine powerful cooling and heating in an elegant cassette design that recesses into the ceiling. When installed, the attractive, low-profile grille is all you see. With its ventilation air intake capability and four-way discharge airflow, the PLA-Series gives you plenty of comfortable airflow options. These units even contain branch duct knockouts for either a round or a rectangular duct, allowing for the air conditioning of a smaller adjacent space.

# Auto Cooling/Heating Changeover

Heat pump systems will automatically switch back and forth between cooling and heating to compensate for temperature fluctuations in a room.

#### Wider Air Stream

Longer air outlets deliver wider air streams for improved air distribution and energy savings. This feature means quieter air delivery with fewer drafts and great overall cooling and heating coverage.



### Independent Vane Motor Control

Each of the four vanes can be set by the wired remote controller to operate independently to match the room layout. Specific vane settings include five fixed directions plus swing.





#### **Auto Fan Speed Feature**

Choose from four set fan speeds or auto fan speed to ensure faster achievement of room temperature. Auto fan speed mode allows the fan to adjust its speed based on the degree of differential between set-point and room temperature.



# Auto Wave Feature (HEATING mode)

In the HEATING mode each air outlet vane operates independently, distributing warm air in multiple directions for the best in room heating.



# i-see<sup>™</sup> Sensor Accessory

In addition to the return air temperature, the PLA-A\*\*BA four-way ceiling cassette with the field-installed i-see sensor measures the floor temperature in real time, observing the room vertically for better management of sensible temperature (temperature felt by the occupant). The i-see sensor measures the infrared rays generated from the surrounding wall and floor surface at an angle of 360°. The infrared ray energy is converted into a temperature value. The i-see sensor rotates 90° slowly in fivesecond intervals for correct measurement of temperature to cover the full floor space. When combined with the auto fan speed mode, air can be directed to the farthest corners of the room for enhanced temperature

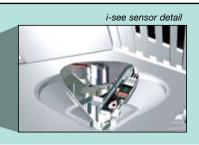
coverage.

i.see Sensor



#### **UNIT FEATURES:**

- Built-in drain lift mechanism for condensate removal; lifts up to 33-7/16 inches with built-in fail-safe sensor
- Easy to install with access to suspension rods through corner pockets
- Ventilation air intake
- Easy to maintain, long-life filter, which is washable and provides about 2,500 hours of use before cleaning is needed, depending on use









(PLA-A36BA MODEL SHOWN WITH OPTIONAL I-SEE™ SENSOR)

#### P-SERIES Specifications

#### BS = Seacoast Protection

D	S = Seacoast Protection								
	Indoor Unit		PLA-A12BA	PLA-A18BA	PLA-A24BA	PLA-A30BA	PLA-A36BA	PLA-A42BA	
Model Name	Outdoor Unit		PUY-A12NHA PUY-A12NHA-BS	PUY-A18NHA PUY-A18NHA-BS	PUY-A24NHA PUY-A24NHA-BS	PUY-A30NHA PUY-A30NHA-BS	PUY-A36NHA PUY-A36NHA-BS	PUY-A42NHA PUY-A42NHA-BS	
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	35,000	42,000	
	Capacity Range	Btu/h	6,000-12,000	8,000-18,000	12,000-24,000	12,000-30,000	12,000-35,000	18,000-42,000	
	Total Input	W	1,260	1,940	2,500	4,100	4,500	4,600	
Cooling *1	Energy Efficiency	SEER	13.5	14.2		13.6	14.2	14.4	
	Moisture Removal	Pints/h	1.7	3.0	5.1	7.2	8.1	10.9	
	Sensible Heat Factor		0.84	0.81	0.76	0.73	0.74	0.71	
Power Supply	Phase, Cycle, Voltage		0.01	0.01		tz, 208-230V *2	0.71	0.71	
1 Ower Ouppry	Indoor - Outdoor S1-S2					08/230V			
Voltage	Indoor - Outdoor S2-S3					C24V			
voitago	Indoor - Remote Controller					Wired Type			
	MCA	Α				wiicu rypc	I	2	
	Fan Motor	F.L.A.		0.				.00	
	Fan Motor Output	W.			0			20	
	•	DRY (CFM)	390-420-460-530	420-490-		490-570-640-740		780-880-990-1,090	
	Airflow (Lo-M1-M2-Hi)	WET (CFM)	350-390-420-490	390-460-	530-600	460-530-600-710	670-770-880-1,030	740-850-950-1,060	
	External Pressure	Pa				0			
Indoor Unit	Sound Pressure Level (Lo-M1-M2-Hi)	dB(A)	27-28-29-31	28-29-	31-32	28-30-32-34	32-34-37-40	34-36-39-41	
macor ome	External Finish Color (Pane	l)			Munsell No	. 6.4Y 8.9/0.4			
	·	W: In.			33-1/1	6 (37-3/8)			
	Dimension Unit (Panel)	D: In.			33-1/1	6 (37-3/8)			
	` ,	H: In.	10-3/16 (1-3/8)			10-3/16 (1-3/8) 11-3/4 (1-3		(1-3/8)	
	Weight Unit (Panel)	Lbs.	49 (13) 51 (13)		i	(13)			
	Drain Lift Mechanism (included)	H: In.	33-7/16						
	Field Drainpipe Size O.D.	In.				1-1/4			
	MCA	Α	1;		18 25			26	
	MOCP	Α		15 20 30		40	,		
	Fan Motor	F.L.A.	0.3		0.75			0.4 + 0.4	
	Fan Motor Output	W	40	)	75			86 + 86	
	0	Model (Type)		DC INV	/ERTER-driven Twir	n Rotary		INVERTER-driven Scroll	
	Compressor	R.L.A.			12		20		
		L.R.A.		14		17.5		27.5	
Outdoor Unit	Airflow	CFM	1,2	00		1,940		3,530	
	Refrigerant Control				Linear Exp	oansion Valve			
	Sound Pressure Level	dB(A)	46	3		48		51	
	(Cooling) *1	ub(A)	40			40		31	
	External Finish Color				Munsell N	o. 3Y 7.8/1.1			
		W: In.	31-	1/2		37-	-3/8		
	Dimensions	D: In.	13 +	7/8		13 +	1-3/16		
		H: In.	23-			37-1/8		53-1/8	
Remote Controller	Weight	Lbs.	90	97 Wi	irod Domoto Contro	163 Iler Packaged with Gr	illo	258	
nemote controller	Type			VVI					
5.44	Туре				R	410A			
Refrigerant	Charge	Lbs., Oz.	2, 14	3, 12		6		10	
	Oil	Type (Fl. Oz.)	MEL56			MEL56 (28)	10	FV50S (45)	
	Gas Side O.D.	ln.	1/		ļ		/8		
Refrigerant Pipe	Liquid Side O.D.		1/	4			/8		
9	Height Difference (Max.) Length (Max.)	Ft.	10	0		100	 65		
Connection	Indoor/Outdoor		. 10	•	Flare	d/Flared			
Method	ns are based on ARI 210/240								

NOTES: Test conditions are based on ARI 210/240.

<sup>\*1</sup> Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).

\*2 Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.

LIMITED WARRANTY | Six-year warranty on compressor. One-year warranty on parts.









(PLA-A36BA MODEL SHOWN WITH OPTIONAL I-SEE™ SENSOR)

P-SERIES Specifications

#### BS = Seacoast Protection

	Indoor Un	it	PLA-A18BA	PLA-A24BA	PLA-A30BA	PLA-A36BA	PLA-A42BA	
Model Name	Outdoor U	nit	PUZ-A18NHA	PUZ-A24NHA	PUZ-A30NHA	PUZ-A36NHA	PUZ-A42NHA	
	<u> </u>		PUZ-A18NHA-BS	PUZ-A24NHA-BS	PUZ-A30NHA-BS	PUZ-A36NHA-BS	PUZ-A42NHA-BS	
	Rated Capacity	Btu/h	18,000	24,000	30,000	35,000	42,000	
	Capacity Range	Btu/h	8,000-18,000	12,000-24,000	12,000-30,000	12,000-35,000	18,000-42,000	
Cooling *1	Total Input	W	1,940	2,500	4,100	4,500	4,600	
	Energy Efficiency	SEER	14.2		3.6	14.2	14.4	
	Moisture Removal	Pints/h	3.0	5.1	7.2	8.1	10.9	
	Sensible Heat Factor	I Di #	0.81	0.76	0.73	0.74	0.71	
	Rated Capacity	Btu/h	19,000	26,000 12,000-28,000	32,000	37,000 12,000-38,000	45,000	
Heating at 47° F *2	Capacity Range Total Input	Btu/h W	8,000-20,000 1,900	2,570	12,000-34,000 3,370	3,300	18,000-48,000 4,450	
	HSPF (Region IV)	Btu/h/W	9.8	8.5	8.7	9.		
	Capacity	Btu/h	13,000	16,000	23,000	25,000	30,000	
Heating at 17° F *3	Total Input	I W	1,590	2,200	3,050	3,070	4,300	
Power Supply	Phase, Cycle, Voltage		1,000		e, 60Hz, 208/230V *4	1 0,070	1,000	
	Indoor - Outdoor S1-S2				AC 208-230V			
Voltage	Indoor - Outdoor S2-S3				DC24V			
ronago	Indoor - Remote Controller			DO	C12V : Wired Type			
	MCA	l A		1		2	2	
	Fan Motor	F.L.A.		0.51		1.0		
	Fan Motor Output	W		50		12		
		DRY (CFM)	420-490-5	70-640	490-570-640-740	710-810-920-1,060	780-880-990-1,09	
	Airflow (Lo-M1-M2-Hi)	WET (CFM)	390-460-5	30-600	460-530-600-710	670-770-880-1,030	740-850-950-1,06	
	External Pressure	Pa			0	•		
	Sound Pressure Level	-ID/A)	00.00.0	. 00	00 00 00 04	00 04 07 40	04.00.00.41	
1. 1 11.29	(Lo-M1-M2-Hi)	dB(A)	28-29-3 <sup>-</sup>	1-32	28-30-32-34	32-34-37-40	34-36-39-41	
Indoor Unit External Finish Color (Pane				Mun	sell No. 6.4Y 8.9/0.4			
		W: In.		3	33-1/16 (37-3/8)			
	Dimension Unit (Panel)	D: In.	33-1/16 (37-3/8)					
		H: In.		10-3/16 (1-3/8)		11-3/4	(1-3/8)	
	Weight Unit (Panel)	Lbs.	49 (13)	51	(13)	55 (	(13)	
	Drain Lift Mechanism	H: In.			33-7/16			
	(included)							
	Field Drainpipe Size O.D.	ln.			1-1/4			
	MCA	Α	13	18	2	5	26	
	MOCP	Α	15	30	0.75	40		
	Fan Motor	F.L.A.	0.35	ļ		0.4 + 0.4		
	Fan Motor Output	W	40		75		86 + 86 INVERTER-driven	
		Model (Type)	DC INVERTER-driven Twin Rotary					
	Compressor	D. A				Scroll		
		R.L.A L.R.A.	14	12	1-	7.5 27.5		
	Airflow	CFM	1,200	1	1,940	17.5 27.5 3,530		
	Refrigerant Control	CI IVI	1,200	Line	ear Expansion Valve		3,330	
Outdoor Unit	Defrost Method			LIII	Reverse Cycle			
	Sound Pressure Level							
	(Cooling) *1	dB(A)	46		48		51	
	Sound Pressure Level	1						
	(Heating) *2	dB(A)	47		50		55	
	External Finish Color	•		Mur	nsell No. 3Y 7.8/1.1			
		W: In.	31-1/2		37-	3/8		
	Dimensions	D: In.	13 + 7/8		13 + 1			
		H: In.	23-5/8		37-1/8		53-1/8	
	Weight	Lbs.	99		165	<u> </u>	260	
Remote Controller	Туре			Wired Remote	Controller Packaged wit	th Grille		
	Туре				R410A			
Refrigerant	Charge	Lbs., Oz.	3, 12	1	6		10	
nonigorani	Oil	Type (Fl. Oz.)	MEL56 (20)	1	MEL56 (28)		FV50S (45)	
	Gas Side O.D.	Type (11. Uz.)	1/2	+	WELSO (28)	8	1 1000 (40)	
	ממט טומט ט.ט.	┥ In.		1				
Pofrigorant Dina	Liquid Side O D		1/4 3/8					
Refrigerant Pipe	Liquid Side O.D.		1/4	•				
Refrigerant Pipe	Height Difference (Max.)	Ft.			100			
Refrigerant Pipe  Connection Method		Ft.	100	I				

NOTES: Test conditions are based on ARI 210/240.

<sup>\*1</sup> Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).

<sup>\*2</sup> Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6.1° C).

<sup>\*3</sup> Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).

<sup>\*4</sup> Indoor units receive power from outdoor units through field-supplied interconnected wiring. Specifications are subject to change without notice.

LIMITED WARRANTY | Six-year warranty on compressor. One-year warranty on parts.

# **CEILING-SUSPENDED SERIES** 24,000 to 42,000 Btu/h Capacity



**PCA Indoor Unit** (The same indoor unit is used for both cooling and heat pump systems.)

The PCA-Series is all about providing powerful cooling and heating performance. This ceiling-suspended unit delivers enough cold or hot air to make any space more comfortable. Manually-adjusted, over-sized swing louvers direct the airflow left or right, quietly covering the entire space. Accessory filters are available to increase efficiency and increase the time span between service calls. The PCA-Series is perfect for restaurants, kitchens and other larger commercial spaces where ovens and other equipment add to an already taxed cooling or heating load.

### **Control Airflow Angle** for Better Coverage

With the wired remote controller four different airflow positions can be set. When in use the Autovane during cooling, the angle self-adjusts into a horizontal position to circulate cold air more effectively. During heating, the vane directs the hot air downward toward the floor, where it will rise and circulate, keeping your room comfortable from top to bottom.

#### Warm Air with No Drafts

Mr. Slim P-Series heat pumps provide warmth without drafts from the beginning with our hot-start technology.





All Mr. Slim PCA-Series models come with a wired remote controller that puts you in command of your personal comfort. The wireless controller is available in an accessory kit.

# **Bring In Outside Air**

Ducting can be installed with minimal on-site work to bring in outside air, creating a healthier indoor environment.



# **Automatic Cooling/heating Changeover** (Heat Pumps)

When set to AUTO mode, heat pump systems will automatically switch back and forth between cooling and heating operation to compensate for indoor and outdoor temperature fluctuations. This feature means total hands-free comfort and efficient air conditioning of your space.









# PCA COOLING-ONLY

# P-SERIES Specifications

BS = Seacoast Protection

	Indoor U	nit	PCA-A24GA	PCA-A30GA	PCA-A36GA	PCA-A42GA		
Model Name	Outdoor Unit		PUY-A24NHA	PUY-A30NHA	PUY-A36NHA	PUY-A42NHA		
			PUY-A24NHA-BS	PUY-A30NHA-BS	PUY-A36NHA-BS	PUY-A42NHA-BS		
	Rated Capacity	Btu/h	24,000	30,000	35,000	42,000		
	Capacity Range	Btu/h	12,000-24,000	12,000-30,000	12,000-35,000	18,000-42,000		
0 " +4	Total Input	W	2,500	4,100	4,630	5,070		
Cooling *1	Energy Efficiency	SEER	13.4	13.0	13.1	13.8		
	Moisture Removal	Pints/h	5.4	8.3	8.2	11.7		
	Sensible Heat Factor		0.75	0.69	0.74	0.69		
Power Supply	Phase, Cycle, Voltage			1 Phase, 60	Hz, 208-230V *2			
	Indoor - Outdoor S1-S2			AC 2	208/230V			
Voltage	Indoor - Outdoor S2-S3				C24V			
•	Indoor - Remote Controller			DC12V	: Wired Type			
	MCA	Α			1			
	Fan Motor	F.L.A.	0	.53		0.69		
	Fan Motor Output	w	<del></del>	70		90		
	·	DRY (CFM)	495-530	)-565-635	705-7	40-810-880		
	Airflow (Lo-M1-M2-Hi)	WET (CFM)	445-480	)-510-570	635-6	70-730-790		
Indoor Unit	Sound Pressure Level (Lo-M1-M2-Hi)	dB(A)	37-39	9-41-43	40-	41-43-45		
	External Finish Color			Munsell No.	0.70Y 8.59/0.97			
	W: In.			51-9/16				
	Dimension Unit	D: In.			26-3/4			
		H: In.	8-	10-5/8				
	Weight Unit	Lbs.	_	75		82		
	Field Drainpipe Size O.D.	ln.		1				
	MCA	Α	18	2		26		
	MOCP	A		30 40		20		
	Fan Motor	F.L.A.	30	0.75		0.4 + 0.4		
	Fan Motor Output	W		75		86 + 86		
	Tan Motor Suput	Model (Type)	DC INVERTER-driven Twin Rotary			INVERTER-driven Scroll		
	Compressor	R.L.A.	12			20		
		L.R.A.	14			27.5		
Outdoor Unit	Airflow	CFM		1,940		3,530		
	Refrigerant Control			Linear Ex	pansion Valve			
	Sound Pressure Level (Cooling) *1	dB(A)		48		51		
	External Finish Color			Munsell I	No. 3Y 7.8/1.1			
		W: In.			37-3/8			
	Dimensions	D: In.			+ 1-3/16			
	1	H: In.		37-1/8		53-1/8		
	Weight	Lbs.		163		258		
Remote Controller	Туре				er (Located with Indoor Un			
	Туре				R410A	,		
Refrigerant	Charge	Lbs.		6		10		
	Oil	Type (Fl. Oz.)		MEL56 (28)		FV50S (45)		
	Gas Side O.D.			55 (=5)	5/8	11230 (10)		
Refrigerant Pipe	Liquid Side O.D.	ln.			3/8			
nonigorant i ipo	Height Difference (Max.)	Ft.			100			
	Length (Max.)	' <sup>'</sup>			165			
Connection Method	Indoor/Outdoor				ed/Flared			
SSIOOGOII MIDGIOG	.iiuooi/ outuooi		1	ı iai				

NOTES: Test conditions are based on ARI 210/240.

 $\label{limited warranty} \textbf{LIMITED WARRANTY} \mid \textbf{Six-year warranty on compressor. One-year warranty on parts.}$ 

<sup>\*1</sup> Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).

<sup>\*2</sup> Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.









# PCA HEAT PUMP

# P-SERIES Specifications

BS = Seacoast Protection

	BS = Seacoast Protect	tion						
	Indo	or Unit	PCA-A24GA	PCA-A30GA	PCA-A36GA	PCA-A42GA		
Model Name	Outdoor Unit		PUZ-A24NHA PUZ-A24NHA-BS	PUZ-A30NHA PUZ-A30NHA-BS	PUZ-A36NHA Puz-A36NHA-BS	PUZ-A42NHA PUZ-A42NHA-BS		
	Rated Capacity	Btu/h	24,000	30,000	35,000	42,000		
	Capacity Range	Btu/h	12,000-24,000 12,000-30,000		12,000-35,000	18,000-42,000		
011 #4	Total Input	ĺw	2,500	4,100	4,630	5,070		
Cooling *1	Energy Efficiency	SEER	13.4	13	13.1	13.8		
	Moisture Removal	Pints/h	5.4	8.3	8.2	11.7		
	Sensible Heat Factor	•	0.75	0.69	0.74	0.69		
	Rated Capacity	Btu/h	26,000	32,000	37,000	45,000		
U1'1 470 F *O	Capacity Range	Btu/h	12,000-28,000	12,000-34,000	12,000-38,000	18,000-48,000		
Heating at 47° F *2	Total Input	W	2,570	3,390	3,490	4,850		
	HSPF (Region IV)	Btu/h/W	8	.5	8.3	8.5		
	Capacity	Btu/h	16,000	23,000	25,000	30,000		
Heating at 17° F *3	Total Input	W W	2,200	3,050	3.070	4,300		
Power Supply	Phase, Cycle, Voltage	] **	2,200	,	Hz, 208/230V *4	4,000		
ожег опрріу	Indoor - Outdoor S1-S2		<u> </u>		08-230V			
/oltage	Indoor - Outdoor S2-S3		+		C24V			
voltage	Indoor - Remote Controller		<u> </u>		Wired Type			
	MCA	A	<del>-  </del>	DOTEV.	1			
	Fan Motor	F.L.A.	n	53		0.69		
	Fan Motor Output	W		0		90		
		DRY (CFM)	495-530-	-565-635	705-74	0-810-880		
	Airflow (Lo-M1-M2-Hi)	WET (CFM)		445-480-510-570		0-730-790		
	Sound Level	dD(A)	27.20	41 40	40-41-43-45			
ndoor Unit	(Lo-M1-M2-Hi)	dB(A)	37-39-	-41-43	40-4	1-43-45		
	External Finish Color			Munsell No.	0.70Y 8.59/0.97			
		W: In.		51	-9/16			
	Dimension Unit	D: In.		26-3/4				
		H: In.	8-5	5/16	10	0-5/8		
	Weight Unit	Lbs.	75			82		
	Field Drainpipe Size O.D.	ln.			5			
	MCA	A	18	26				
	MOCP	Α	30	30 40				
	Fan Motor	F.L.A.		0.75		0.4 + 0.4		
	Fan Motor Output	W		75		86 + 86 INVERTER-driven		
	0	Model (Type)	DC	DC INVERTER-driven Twin Rotary				
	Compressor	R.L.A.	12			20		
		L.R.A.	14	17	7.5	27.5		
	Airflow	CFM		1,940		3,530		
Outdoor Unit	Refrigerant Control	•		Linear Ex	pansion Valve	•		
	Defrost Method			Reverse Cycle				
	Sound Level at Cooling *1	dB(A)		48		51		
	Sound Level at Heating *2			50		55		
	External Finish Color	Tub(h)	+		lo. 3Y 7.8/1.1			
	LAIGITIAI I IIIISII GUIUI	W: In.	+		7-3/8			
	Dimensions	D: In.	+		- 1-3/16			
	Difficiolofic	H: In.	+	37-1/8	1 0/10	53-1/8		
	Weight	Lbs.	1	165		260		
Remote Controller	Type	L.00.	+		r (Located with Indoor Unit)	200		
iomote ountroller	Туре		+		410A			
Refrigerant	Charge	Lbs.	1	6		10		
iomyorani	Oil	Type (Fl. Oz.)	+	MEL56 (28)		FV50S (45)		
	Gas Side O.D.	1 '' '			5/8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		I Inc	1					
	Liquid Side O.D.	┪ln.		3/8				
Refrigerant Pipe	Liquid Side O.D.							
Refrigerant Pipe	Liquid Side O.D.  Height Difference (Max.)  Length (Max.)	Ft.			100 165			

NOTES: Test conditions are based on ARI 210/240.

Specifications are subject to change without notice.

<sup>\*1</sup> Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).

\*2 Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).

\*3 Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).

\*4 Indoor units receive power from outdoor units through field-supplied interconnected wiring.

		INDOOR INTAKE AIR TEMPERATURE	OUTDOOR INTAKE AIR TEMPERATURE
COOLING	MAXIMUM	95° F D.B. (MS/MSY/MSZ), 90° F D.B. (MSY/MSZ-D/FD), 71° F W.B. (MS/MSY/MSZ), 73° F W.B. (MSY/MSZ-D/FD)	115º F D.B.
	MINIMUM	67° F D.B., 57° F W.B.	67° F D.B. (MU), 14° F D.B. (MUY(Z), MXZ)
	MAXIMUM	80° F D.B., 67° F W.B.	75° F D.B., 65° F W.B.
HEATING	MINIMUM	70° F D.B., 60° F W.B.	14º F D.B., 13º F W.B. (MUZ), 12º F W.B. (MXZ)

 $<sup>^{\</sup>star}$  MU units operate at intake air temperature down to 10° F with the addition of an ICM-326HM-1 low temperature control.

#### PKA/PLA/PUZ-HA RATING CONDITIONS

		INDOOR INTAKE AIR TEMPERATURE	OUTDOOR INTAKE AIR TEMPERATURE
COOLING	MAXIMUM	90° F D.B., 73° F W.B.	115° F D.B.
COOLING MINIMUM		66° F D.B., 59° F W.B.	0° F D.B.*
LIFATINO	MAXIMUM	83° F D.B.	70° F D.B., 59° F W.B.
HEATING	MINIMUM	63° F D.B.	-13° F D.B., -13° F W.B.

<sup>(\*</sup> With wind baffle accessory installed) Without wind baffle installed, the minimum temperature will be 23° F D.B.

#### PKA/PLA/PCA/PUY/PUZ-A RATING CONDITIONS

		INDOOR INTAKE AIR TEMPERATURE	OUTDOOR INTAKE AIR TEMPERATURE
COOLING	MAXIMUM	95° F D.B., 71° F W.B.	115° F D.B.
COOLING	MINIMUM	67° F D.B., 57° F W.B.	0° F D.B.*
HEATING	MAXIMUM	80° F D.B., 67° F W.B.	70° F D.B., 59° F W.B.
HEATING	MINIMUM	70° F D.B., 60° F W.B.	12º F D.B., 10º F W.B.

<sup>(\*</sup> With wind baffle accessory installed) Without wind baffle installed, the minimum temperature will be 23° F D.B.

#### **REFRIGERANT TUBING SETS**

Lineset Model Number	Tube Size (In.)	Length Ft.	Insul.	Use With Mitsubishi Electric Mr. Slim Models
MLS143812T-15	1/4 x 3/8	15	1/2"	
MLS143812T-30	1/4 x 3/8	30	1/2"	MS-A09WA; MSZ-A09NA, MSZ-A12NA;
MLS143812T-50	1/4 x 3/8	50	1/2"	MSZ-FD09NA, MSZ-FD12NA
MLS143812T-65	1/4 x 3/8	65	1/2"	
MLS141212T-15	1/4 x 1/2	15	1/2"	
MLS141212T-30	1/4 x 1/2	30	1/2"	MS-A12WA; MSY-A15NA, MSY-A17NA,
MLS141212T-50	1/4 x 1/2	50	1/2"	MSZ-A15NA, MSZ-A17NA; PKA-A12GA(L), PKA-A18GA(L);
MLS141212T-65	1/4 x 1/2	65	1/2"	PLA-A12BA, PLA-A18BA
MLS141212T-100	1/4 x 1/2	100	1/2"	
MLS145812T-15	1/4 x 5/8	15	1/2"	
MLS145812T-30	1/4 x 5/8	30	1/2"	
MLS145812T-50	1/4 x 5/8	50	1/2"	MSY-A24NA, MSZ-A24NA
MLS145812T-65	1/4 x 5/8	65	1/2"	
MLS145812T-100	1/4 x 5/8	100	1/2"	
MPLS385812T-10	3/8 x 5/8	10	1/2"	MSY-D30NA, MSZ-D30NA,
MPLS385812T-15	3/8 x 5/8	15	1/2"	MSY-D36NA, MSZ-D36NA;
MPLS385812T-30	3/8 x 5/8	30	1/2"	PKA-A24FA(L), PKA-A30FA(L), PKA-A36FA(L);
MPLS385812T-50	3/8 x 5/8	50	1/2"	PLA-A24BA, PLA-A30BA, PLA-A36BA,
MPLS385812T-65	3/8 x 5/8	65	1/2"	PLA-A42BA; PCA-A24GA, PCA-A30GA, PCA-A36GA,
MPLS385812T-100	3/8 x 5/8	100	1/2"	PCA-A42GA

#### REFRIGERANT LINE LENGTH FLARE/FLARE

MS-A12WA MU-A MSY-A15NA MUY- MSY-A17NA MUY- MSY-A24NA MUY- MSZ-A09NA MUZ- MSZ-A12NA MUZ- MSZ-A15NA MUZ- MSZ-A15NA MUZ- MSZ-A17NA MUZ- MSZ-FD09NA MUZ- MSZ-FD09NA MUZ- MSZ-FD12NA MUZ- MSZ-FD12NA MUZ- MSZ-B03NA MUY- MSZ-D30NA MUY- MSZ-D36NA MUZ- MSZ-D36NA MUZ- MSZ-D36NA MUZ- MSZ-A15NA MSZ-A12NA, MSZ-A15NA MSZ-A12NA, MSZ-A15NA MSZ-A17NA, MSZ-A15NA, MSZ-A17NA, MSZ-A24NA MSZ-A17NA, MSZ-A24NA MSZ-A17NA, MSZ-A24NA MSZ-A17NA, MSZ-A24NA PKA-A12GA (L) PUY- PKA-A18GA (L) PUY- PKA-A36FA (L) PUZ-	09WA 112WA 115WA 115NA 115NA 117NA 114NA 114NA 115NA 1	65   65   65   65   65   65   65   65	in feet  35  35  40  40  50  40  40  40  40  50  40  50  40  50  5
MSY-A15NA MUY- MSY-A17NA MUY- MSY-A24NA MUY- MSZ-A09NA MUZ- MSZ-A12NA MUZ- MSZ-A15NA MUZ- MSZ-A15NA MUZ- MSZ-A15NA MUZ- MSZ-B15NA MUZ- MSZ-FD09NA MUZ- MSZ-FD12NA MUZ- MSZ-FD12NA MUZ- MSZ-B12NA MUZ- MSZ-B12NA MUZ- MSZ-B12NA MUZ- MSZ-B12NA MUZ- MSZ-D36NA MUY- MSZ-D36NA MUZ- MSZ-D36NA MUZ- MSZ-D36NA MUZ- MSZ-A09NA, MSZ-A12NA, MSZ-A15NA MZ- MSZ-A09NA, MSZ-A12NA, MSZ-A15NA, MSZ-A17NA, MSZ-A24NA MZ-A15NA, MSZ-A17NA, MSZ-A24NA MZ-A15NA, MSZ-A17NA, MSZ-A24NA PKA-A12GA (L) PUY- PKA-A12GA (L) PUY- PKA-A36FA (L) PUY- PKA-A36FA (L) PUZ-	A15NA (A17NA (A17NA (A17NA (A12NA (A12NA (A15NA (A17NA (A)	65 65 65 65 65 65 65 65 60 00 60 00 00 00 00 00	40 40 50 40 40 40 40 50 40 50 50
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MSZ-A24NA MUZ- MSZ-FD09NA MUZ- MSZ-FD12NA MUZ- MSY-D30NA MUY- MSY-D36NA MUY- MSZ-D30NA MUZ- MSZ-D36NA MUZ- MSZ-A09NA, MSZ-A12NA, MSZ-A15NA MSZ-A12NA, MSZ-A15NA, MSZ-A17NA, MSZ-A24NA MSZ-A17NA, MSZ-A24NA PKA-A12GA (L) PUY- PKA-A36FA (L) PUY- PKA-A36FA (L) PUY- PKA-A36FA (L) PUZ- PKA-A36FA (L) (H2i) PUZ-	A24NA 1 FD09NA 6 FD12NA 0 D30NA 1 D36NA 1 D30NA 1 D36NA 1 D36NA 1 2A20NA 1	00   65   65   00   00   00   00	50 40 40 50 50
MSZ-FD09NA MUZ- MSZ-FD12NA MUZ- MSY-D30NA MUY- MSY-D36NA MUY- MSZ-D36NA MUZ- MSZ-D36NA MUZ- MSZ-D36NA MUZ- MSZ-A09NA, MSZ-A12NA, MSZ-A15NA MSZ-A12NA, MSZ-A15NA, MSZ-A12NA, MSZ-A24NA MSZ-A12NA, MSZ-A24NA MSZ-A12NA, MSZ-A24NA PKA-A12GA (L) PUY- PKA-A18GA (L) PUY- PKA-A36FA (L) PUZ-	FD09NA (1) FD12NA (1) D30NA 1 D36NA 1 D30NA 1 D30NA 1 D36NA 1 D36NA 1	65 65 00 00 00	40 40 50 50
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MSZ-A15NA MXZ- MSZ-A09NA, MSZ-A12NA, MSZ-A15NA, MSZ-A17NA, MSZ-A24NA MSZ-A24NA MSZ-A24NA MSZ-A17NA, MSZ-A24NA MSZ-A17NA, MSZ-A15NA, MSZ-A17NA, MSZ-A24NA PKA-A12GA (L) PUY PKA-A18GA (L) PUY PUZ PKA-A30FA (L) PUY PUZ PKA-A36FA (L) PUY PUZ PKA-A36FA (L) PUZ		. l	50
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MSZ-A15NA, MSZ-A17NA, MXZ- MSZ-A24NA  PKA-A12GA (L)  PKA-A18GA (L)  PKA-A24FA (L)  PKA-A30FA (L)  PKA-A36FA (L)  PKA-A36FA (L) (H2i)  PUZ-I		30	49*/33
PKA-A18GA (L)  PKA-A24FA (L)  PKA-A30FA (L)  PKA-A30FA (L)  PKA-A36FA (L)  PKA-A36FA (L)  PKA-A36FA (L) (H2i)  PUZ-I	4A36NA 2	30	49*/33
PKA-A18GA (L)  PUZ-I  PKA-A24FA (L)  PKA-A30FA (L)  PKA-A36FA (L)  PKA-A36FA (L)  PKA-A36FA (L) (H2i)  PUZ-I	A12NHA 1	00	100
PKA-A24FA (L)  PKA-A30FA (L)  PKA-A36FA (L)  PKA-A36FA (L)  PKA-A36FA (L) (H2i)  PUZ-I	A18NHA, A18NHA 1	00	100
PKA-A30FA (L) PUZ-J PKA-A36FA (L) PUZ-J PKA-A36FA (L) (H2i) PUZ-J	A24NHA, A24NHA 1	65	100
PKA-A36FA (L) (H2i) PUZ-J	A30NHA, A30NHA 1	65	100
.,,,,	A36NHA, A36NHA 1	65	100
PLA-A12BA PUY-	HA36NHA 2	:65	100
	A12NHA 1	00	100
ΡΙΔ-Δ18ΒΔ	A18NHA, A18NHA 1	00	100
ΙΡΙΔ-ΔΌΔΚΔ	A24NHA, A24NHA 1	65	100
I PLA-ABORA I	A30NHA, A30NHA 1	65	100
I DI V-V36BV I	A36NHA, A36NHA 1	65	100
PLA-A36BA (H2i) PUZ-I	HA36NHA 2	:65	100
ΙΡΙΔ-Δ47ΚΔ Ι	142NHA, 142NHA	65	100
Ι ΡΓ:Δ-Δ2Δ14Δ	A24NHA, A24NHA 1	65	100
I PC:Δ-Δ'3ΩGΔ I	30NHA, 30NHA 1	65	100
Ι ΡΓ:Δ-Δ366-Δ		65	100
PCA-A42GA PUZA	36NHA, 36NHA 1	65	100

<sup>\*49&#</sup>x27; applies to installations in which the outdoor unit is installed below indoor unit.

PART NUMBER	USE WITH	DESCRIPTION							
TAITI NOMBER	OSE WITH	Controls							
MAC-397IF-E	M-Series Inverter Units	MA and contact terminal interface							
	M-Series Inverter Units	M-NET control adapter for Mr. Slim MSY and MSZ models							
	P-Series	Connector for CN51/multiple remote controller adapter and duct fan controller							
PAC-715AD	P-Series	Connector for CN32 (For remote ON/OFF)							
PAC-SE41TS-E	P-Series	Remote temperature sensor for indoor units							
	PLA-ABA	i-see™ sensor corner panel for PLA-ABA indoor units							
	P-Series	Remote operation adapter: display and ON/OFF							
	P-Series	M-NET control adapter for Mr. Slim PUY-A, PUZ-A, and PUZ-HA Models							
PAC-SK52ST	P-Series								
PAR-21MAA-G	Use for wired M-Series Controller	Control / service tool  Deluxe MA remote controller (Requires MAC-397IF-E)							
	PCA	Wireless remote controller kit for PCA suspended units							
	PLA-ABA	Wireless remote controller for PLA-ABA units (Requires signal receiver PAR-SA9FA-E)							
PAR-SA9FA-E	PLA-ABA								
PZ-41SLB-E		Wireless signal receiver for PLA-ABA units (For PAR-FA32MA-E controller)  Lossnay ERV remote controller for LGH ERV control							
PZ-413LD-E	Lossnay®	Lossinay Env Territore Controller for Lan Env Control							
WB-PA1	P-Series	Wind baffle (1 piece) PUY/Z-A12/A18							
WB-PA2	P-Series	Wind baffle (1 piece) PUY/Z-A24/A30/A36/A42 (42 installation requires 2 pieces); PUZ-HA36NA (Requires 2 pieces)							
ICIVI-320HIVI-1	M-Series Non-Inverter units	Low ambient head pressure controller							
Filters  MAG 0000FT M Conico Indexe Unit A04									
	M-Series Indoor Unit - A24	Anti-allergy enzyme filter							
MAC-415FT	M-Series Indoor Unit - A09/A12/A15/A17	Anti-allergy enzyme filter							
	MSZ-FD09/12	Anti-allergy enzyme filter							
	MSZ-FD09/12	Platinum deodorizing filter							
	M-Series Indoor Unit - D30/36	Anti-allergy enzyme filter							
	PCA	High-efficiency (MERV 10) filter element							
PAC-SH59KF-E	PLA-ABA	High-efficiency (MERV 10) filter element (Requires PAC-SH53TM-E multi-function casement)							
014700 000	D. O. J.	Pumps							
SI1730-230	P-Series	Mini-condensation pump: 230V							
SI3100-115	MS-Series	Mini-condensation pump: 115V							
Sl3100-230	MSY/Z-Series	Mini-condensation pump: 230V							
TA7.140000	M.O. day and D.O. day	Miscellaneous							
	M-Series and P-Series	Three-pole disconnect switch; 30A, 600V; turns off power between indoor and outdoor units							
1	MU and PU outdoor units	Condensing unit wall mounting brackets: painted steel							
	PLA-ABA	Multi-function casement (High-efficiency filter element not included)							
	PLA-ABA	Air outlet shutter plates (1 set = 2 pieces)							
	P-Series	Air outlet guide (1 piece) PUY/Z-A12/A18							
	P-Series	Air outlet guide (1 piece) PUY/Z-A24/A30/A36/A42 (42 installation requires 2 pieces); PUZ-HA36NA (Requires 2 pieces)							
	P-Series	Drain socket							
1	MUZ-FD09/12	Drain socket							
	MUY(Z)-D30/36	Drain socket assembly							
	PUY(Z)-A12/18	Drain pan							
	PUY(Z)-A24/30/36/42 and PUZ-HA36	Drain pan							
RCMKP1CB	M and P Series Wireless	Lockdown bracket for wireless remote controller							
ULTRILITE1	All M-Series and PUZ(Y)-A12/18	Condensing unit mounting pad: 16" x 36" x 3"							
ULTRILITE2	PUY(Z)-A24/30/36/42; PUZ-HA36	Condensing unit mounting pad: 24" x 42" x 3"							
		Port Adapters							
	MXZ-Series	Adapter: 3/8" x 1/2"							
	MXZ-Series MXZ-Series	Adapter: 3/8" x 1/2" Adapter: 1/2" x 3/8"							
MAC-A455JP-E									
MAC-A455JP-E MAC-A456JP-E	MXZ-Series	Adapter: 1/2" x 3/8"							
MAC-A455JP-E MAC-A456JP-E PAC-493PI	MXZ-Series MXZ-Series	Adapter: 1/2" x 3/8" Adapter: 1/2" x 5/8"							
MAC-A455JP-E MAC-A456JP-E PAC-493PI	MXZ-Series MXZ-Series MXZ-Series	Adapter: 1/2" x 3/8"  Adapter: 1/2" x 5/8"  Adapter: 1/4" x 5/8"							

# LINE - HIDE **Lineset Cover System**

Put a professional finish on air conditioning installations with an easy-to-install modular system that beautifies exteriors and protects linesets, drainlines, and wiring.

- Available in four sizes: 2-1/4", 3", 4", and 6" tubes.
- Snap-on covers and a full selection of couplings, elbows, T-joints, caps, and more for any application, complex or simple.
- High-quality PVC with UV inhibitors for outdoor service in all weather conditions.
- Can be painted with most house paints to match exterior decors.
- Not just for HVAC. Hide any exterior cabling, piping, or wiring.
- Use it indoors, too! Meets UL94v-0 for interior applications.

Download a brochure at www.mrslim.com to find out more information.





Model numbers:

**BV14FFSI** BV38FFSI **BV12FFSI BV58FFSI** 



- Size available: 1/4"; 3/8"; 1/2"; 5/8"
- Fully factory assembled
- Furnace brazed and pressure tested
- Each ball valve is equipped with Schrader Valve for refrigerant service
- Design working pressure: 700 PSIG
- Temperature range:
  - -40° F to +325° F (-40° C to +149° C)
- Forged brass body and seal cap
- Teflon® seals and gaskets (no synthetic O-rings)
- Seal cap design permits valve operation without removal of seal cap
- Suitable for use with R-11, R-22, R-123, R-125, R-134A, R-236FA, R-4202A, R-402B, R-404A, R-407C, R-410A, R-500, R-502, and R-507
- One year limited materials and workmanship warranty on Ball Valves



- Engineered for Mini-split and **Multi-split HVAC Units**
- Full Port Design
- 700 PSIG Rated
- R-410A Compatible
- Flare Connections

Part Number	SAE Flare	А	В	С	D	E	F
BV14FFSI	1/4″	6.19	2.60	1.80	1.22	1.42	1.10
BV38FFSI	3/8″	6.30	2.67	1.80	1.22	1.42	1.10
BV12FFSI	1/2"	6.51	2.67	1.80	1.22	1.42	1.10
BV58FFSI	5/8"	6.64	2.67	1.80	1.28	1.42	1.10

\*ball valves come with an insulation piece



Provides personalized comfort control for every room.













Mitsubishi Electric Shizuoka Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO), based on a review of quality warranties for the production of air-conditioning equipment. The plant also acquired environmental management system standard ISO 1001 certification. 14001 certification.











**HVAC Advanced Products Division** 

Mitsubishi Electric Advanced Products Division 3400 Lawrenceville Suwanee Road Suwanee, GA 30024

Phone: 888-467-7546 Fax: 800-658-1458

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\*Hyper-Heating technology Patent Pending.

See complete warranty for terms, conditions and limitations. A copy is available from Mitsubishi Electric.

Form No. MBROGEN-11-08-10M-V3 PD

For more information visit WWW.mrslim.com